Programming without coding technology

تكنولوجيا البرمجة بدون كود

(1) Mahmoud Programming Language

(2) RPWI Environment

(3) DoubleS (Super Server) Paradigm
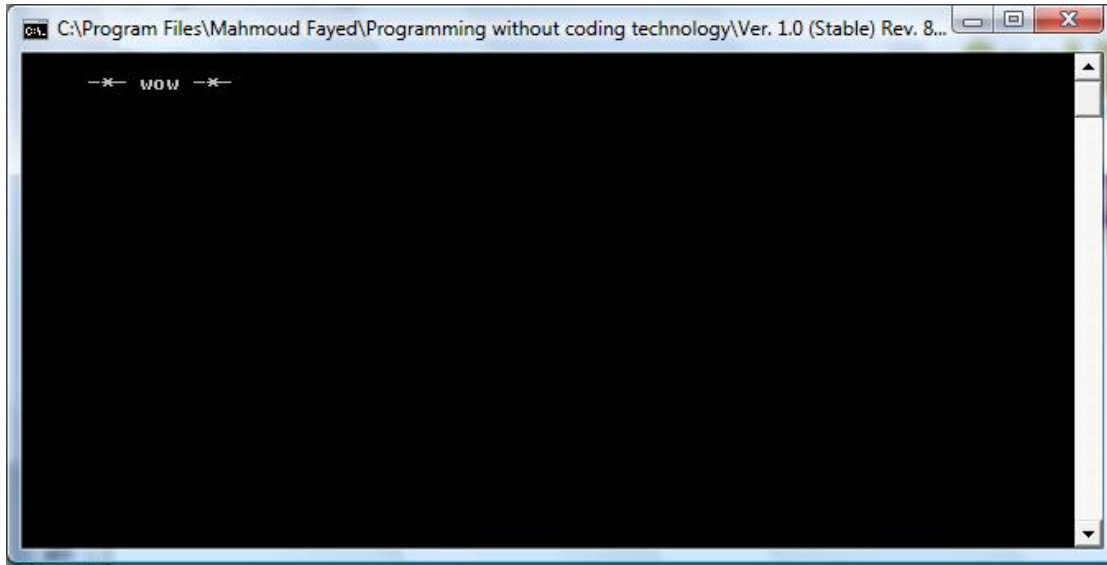
(١) لغة البرمجة محمود

(٢) بيئة البرمجة بدون كود

(٣) نمط البرمجة الخادم الممتاز

Welcome
To the Real World
You are in
The world of
Programming Without
Coding

Version 1.0
(Stable) Rev. 8

الاصدارة الاولى
المراجعة الثامنة

http://www.sourceforge.net/projects/doublesvsoop

By
Mahmoud Fayed
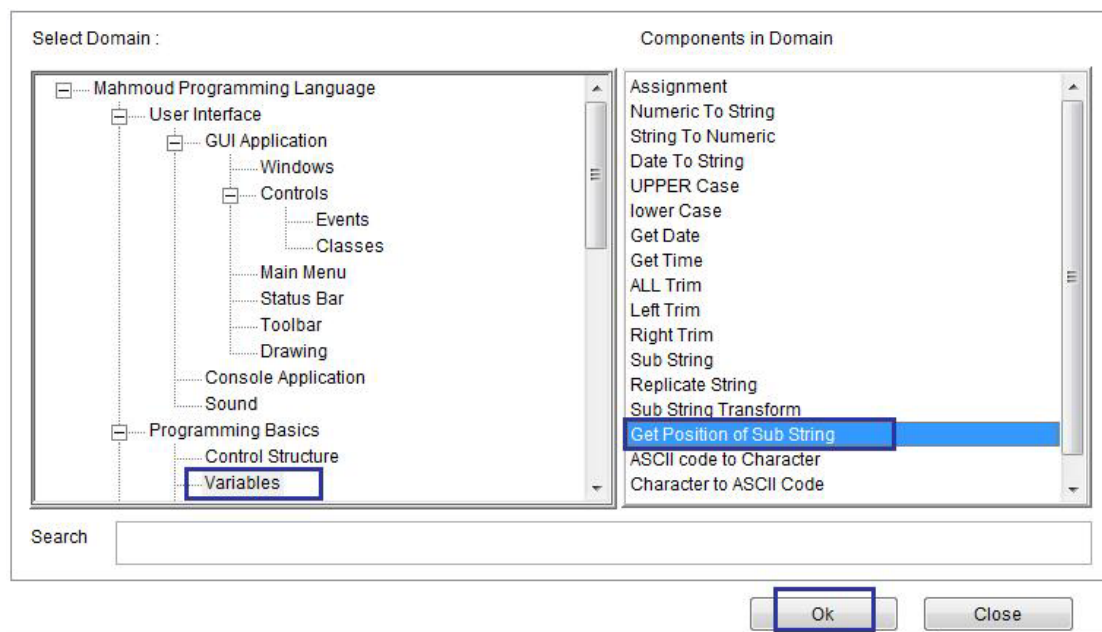msfclipper@users.sourceforge.net
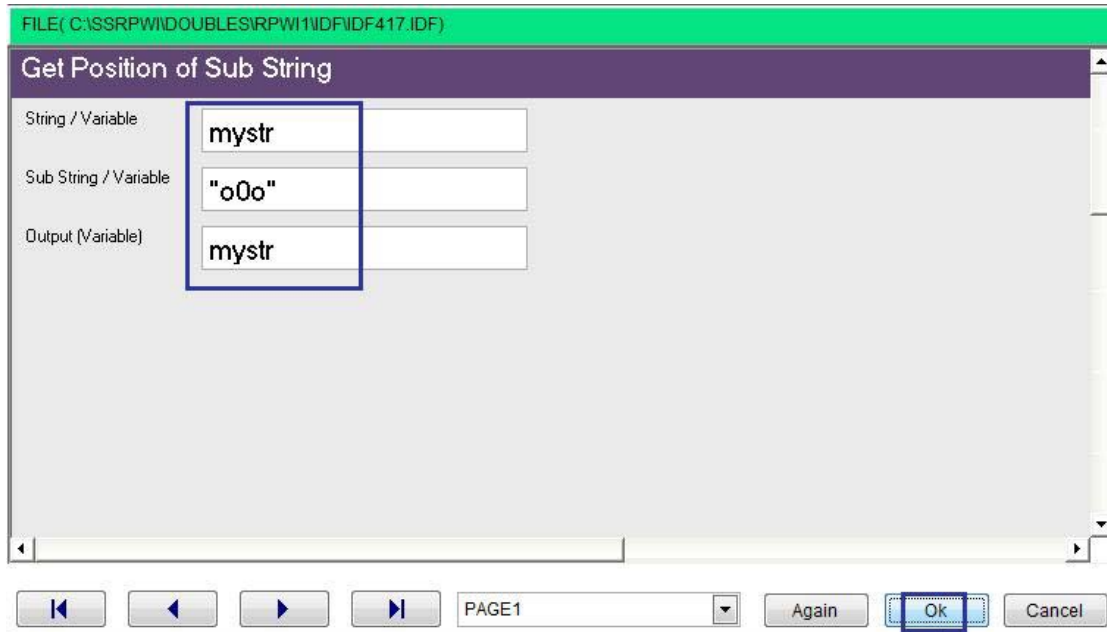
جدول المحتويات

The final Application

Get position of substring

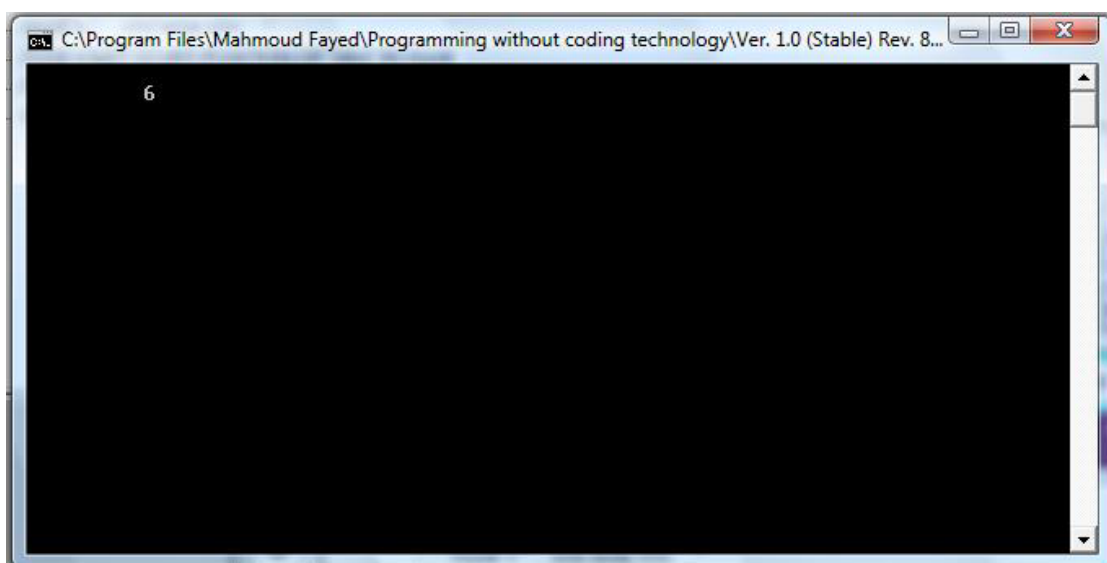Locates the position of a substring within a character string

Example – Screen Shots:

Domain (Variables) Component (Get Position of sub string)

FILE(C:\SSRPWI\DOUBLES\RPWI1\IDF\IDF417.IDF)

Get Position of Sub String

String / Variable	mystr	
Sub String / Variable	"o0o"	
Output (Variable)	mystr	

|◄ | ◄ | ► | ►| | PAGE1 ▼ | Again | Ok | Cancel |

Interaction Page

Start Point (NOT STEP)
    The First Step
            mystr = "   o0o wow o0o   "
            mystr = GET START POSITION OF "o0o" IN mystr
            Print Text (NEW LINE) mystr
            WAIT (SECONDS)

Final Steps Tree

C:\Program Files\Mahmoud Fayed\Programming without coding technology\Ver. 1.0 (Stable) Rev. 8...
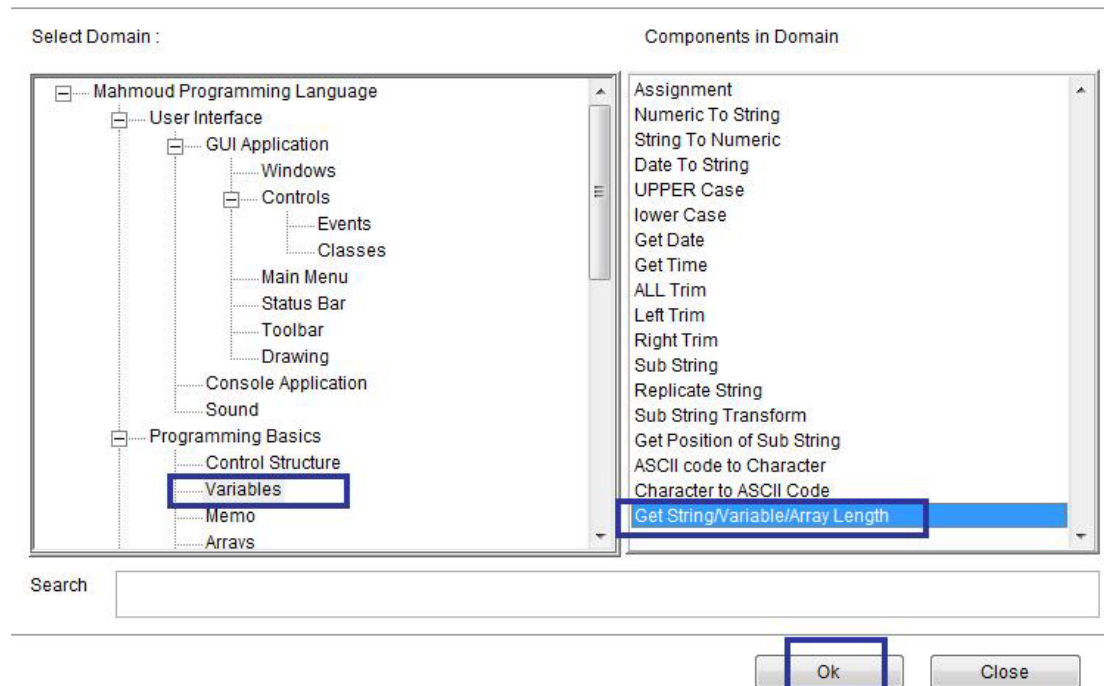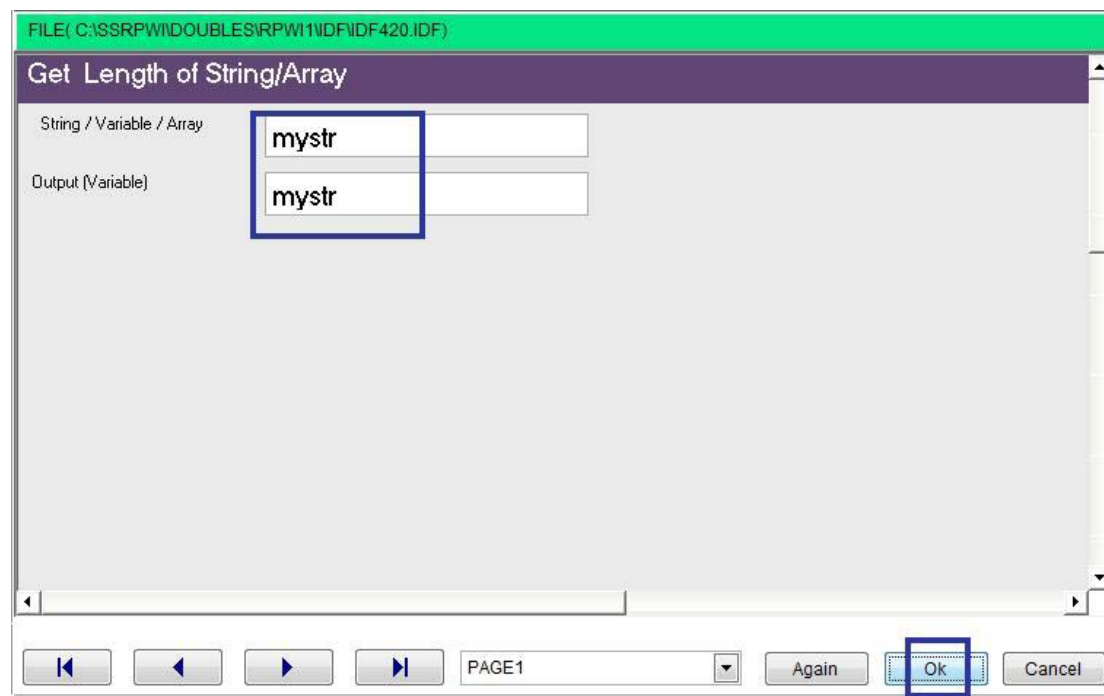
6

The final application

Get String/Variable/Array Length

Return the length of a character string or the number of elements in an array
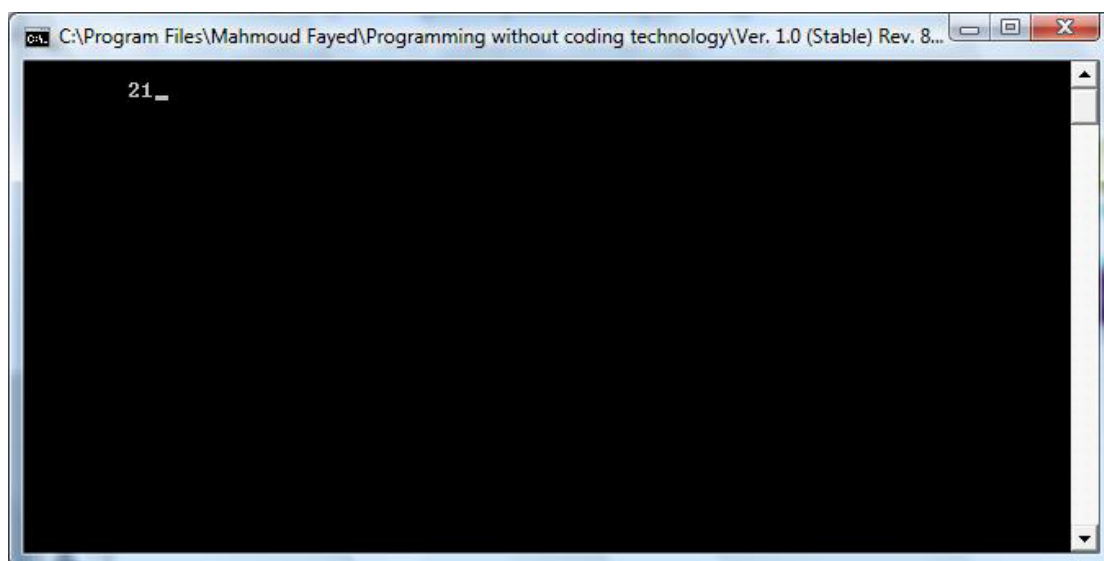
Example – Screen Shots:

Domain (Variables) Component (Get String/Variables/Length)

Interaction Pages

```
Start Point (NOT STEP)
  The First Step
        mystr = "   o0o wow o0o   "
        mystr = Get Length of String/Variable/Array mystr
        Print Text (NEW LINE) mystr
        WAIT (SECONDS)
```

The final steps tree

The final application

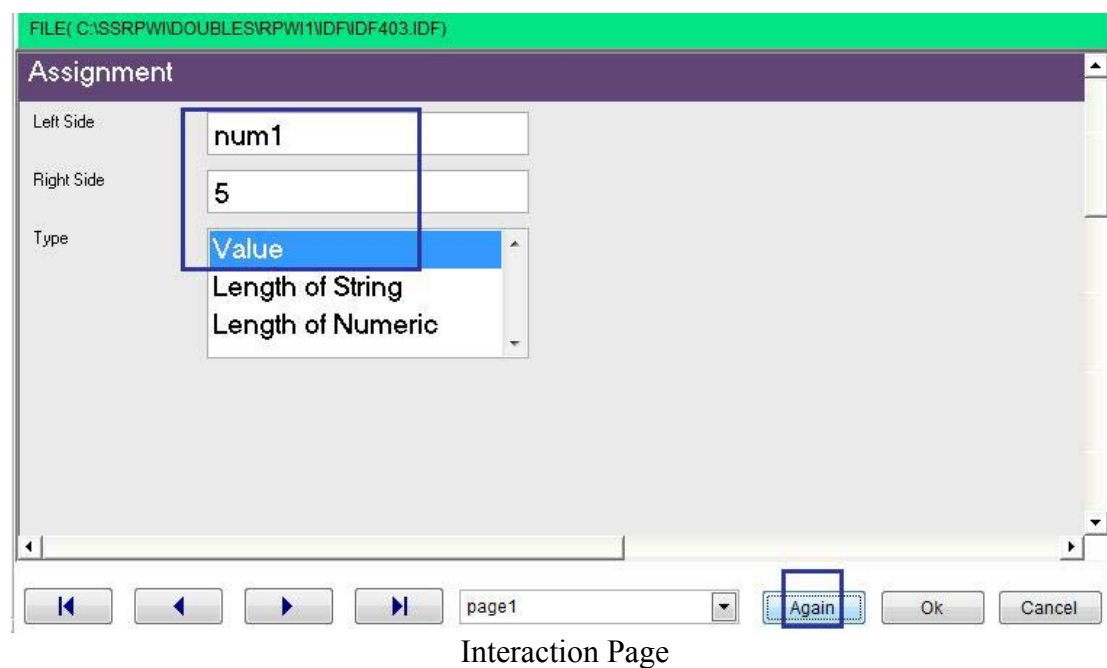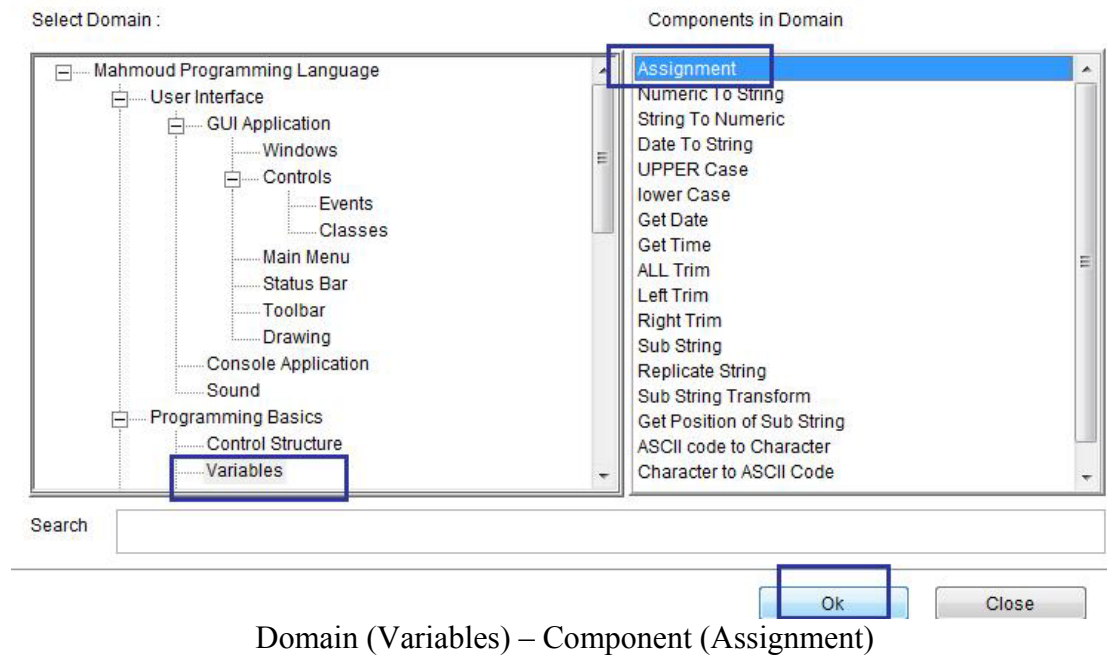# Numerical variables and arithmetic operations
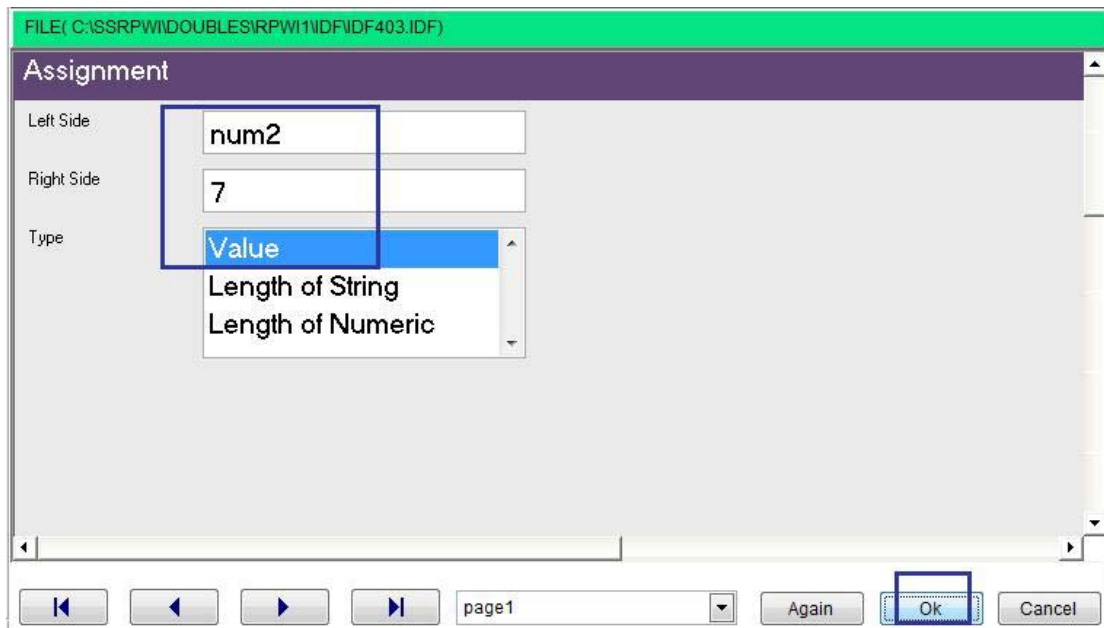
Domain (Arithmetic)

Components:-

- Sum two numbers
- Subtract
- Multiplication
- Division
- Square root
- Numeric value to an integer
- Round
- Modulus (%)
- Generate random number

Sum two numbers:-
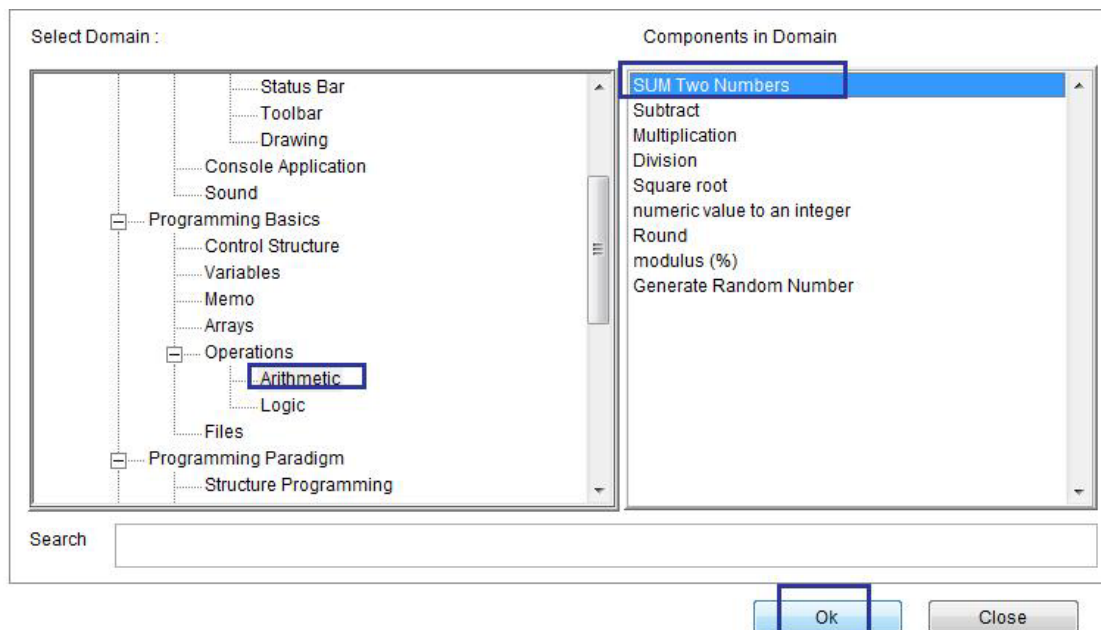
- Domain (Arithmetic)
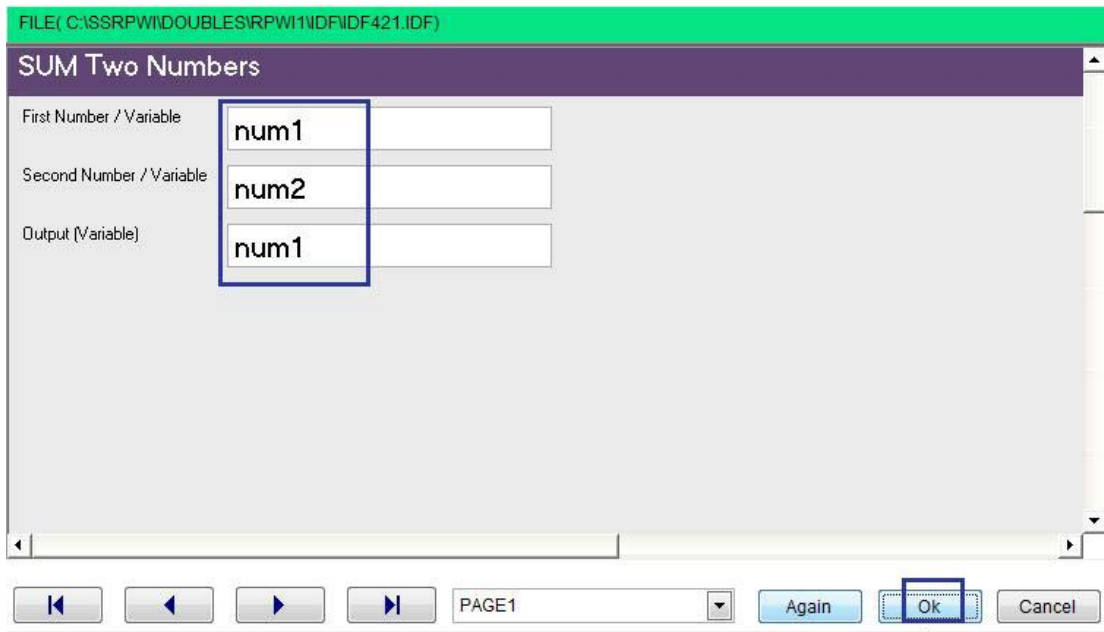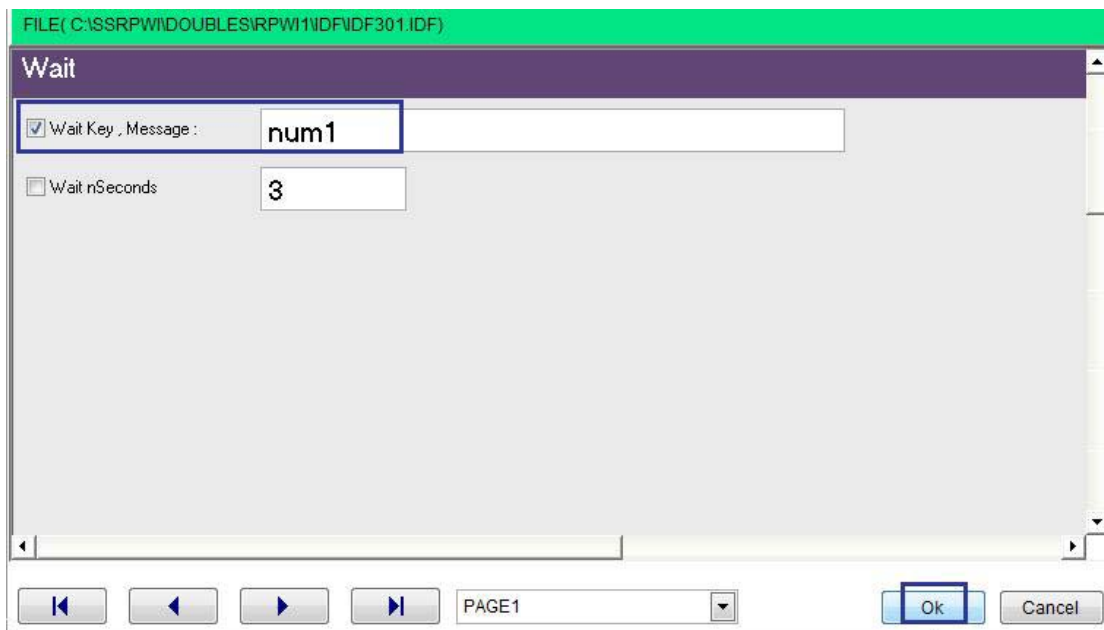- Component (Sum two numbers)

Example – Screen Shots:-

Domain (Variables) – Component (Assignment)

Interaction Page

Interaction Page

Component (Arithmetic) – Component (Sum two numbers)

FILE(C:\SSRPWI\DOUBLES\RPWI1\IDF\IDF421.IDF)

SUM Two Numbers

First Number / Variable   `num1`

Second Number / Variable   `num2`

Output (Variable)   `num1`

[◄◄] [◄] [►] [►►]   PAGE1 ▼   Again   [Ok]   Cancel

Interaction Page

FILE(C:\SSRPWI\DOUBLES\RPWI1\IDF\IDF301.IDF)

Wait

☑ Wait Key , Message :   `num1`

☐ Wait nSeconds   `3`

[◄◄] [◄] [►] [►►]   PAGE1 ▼   [Ok]   Cancel

Interaction Page

Start Point (NOT STEP)
└── The First Step
        num1 = 5
        num2 = 7
        num1 = num1 + num2
        Wait (KEY)

Steps Tree

The final application

Subtract

- Domain (Arithmetic)
- Component (Subtract)

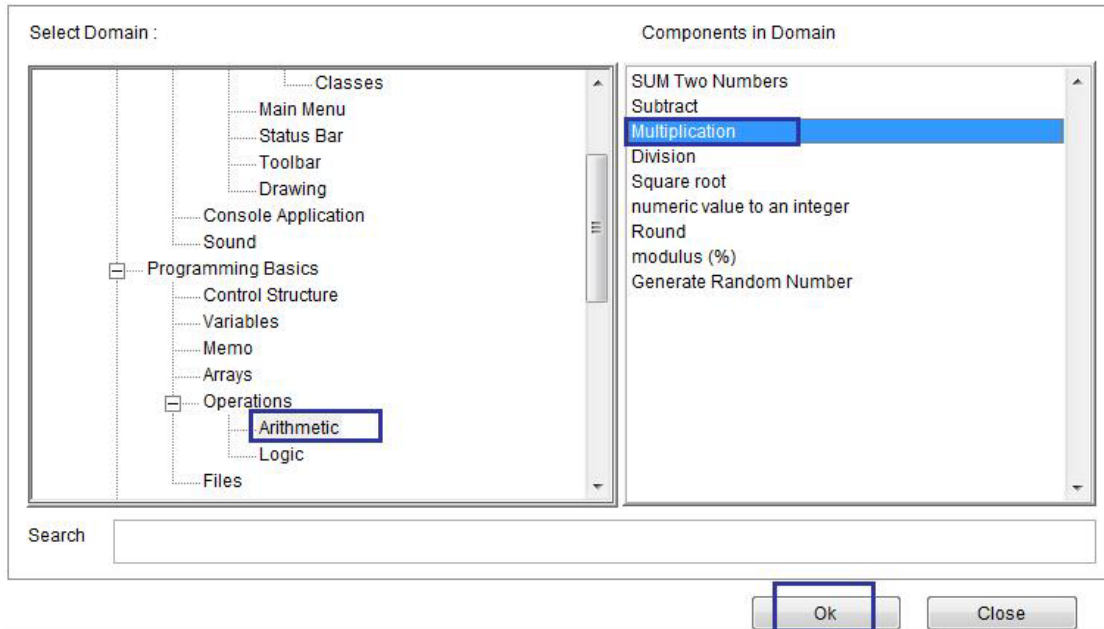Screen shots

Domain (Arithmetic) – Component (Subtract)

FILE(C:\SSRPWI\DOUBLES\RPWI1\IDF\IDF422.IDF)

Subtract

From Number / Variable	num2	
Number / Variable	num1	
Result (Variable)	num1	

| ◄◄ | ◄ | ► | ►► | PAGE1 ▼ | Again | Ok | Cancel |

Interaction Page

```
Start Point (NOT STEP)
└─ The First Step
        ├─ num1 = 5
        ├─ num2 = 7
        ├─ num1 = num2 - num1
        └─ Wait (KEY)
```

Final Steps Tree

C:\Program Files\Mahmoud Fayed\Programming without coding technology\Ver. 1.0 (Stable) Rev. 8...

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The Final Program

Multiplication

- Domain (Arithmetic)
- Component (Multiplication)

Screen shots

Domain (Arithmetic) – Component (Multiplication)

Interaction Page

```
Start Point (NOT STEP)
  The First Step
          num1 = 5
          num2 = 7
          num1 = num1 * num2
          Wait (KEY)
```

The Final Steps Tree

C:\Program Files\Mahmoud Fayed\Programming without coding technology\Ver. 1.0 (Stable) Rev. 8...

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The Final Application
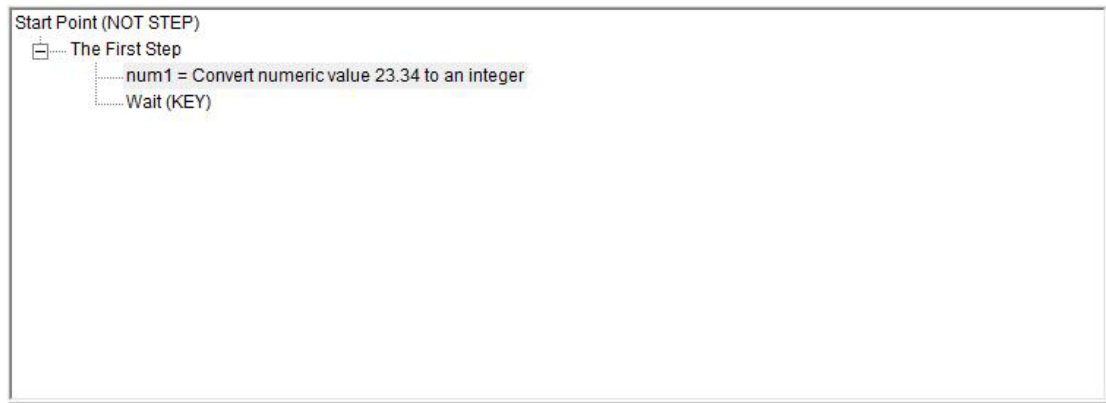
Division

- Domain (Arithmetic)
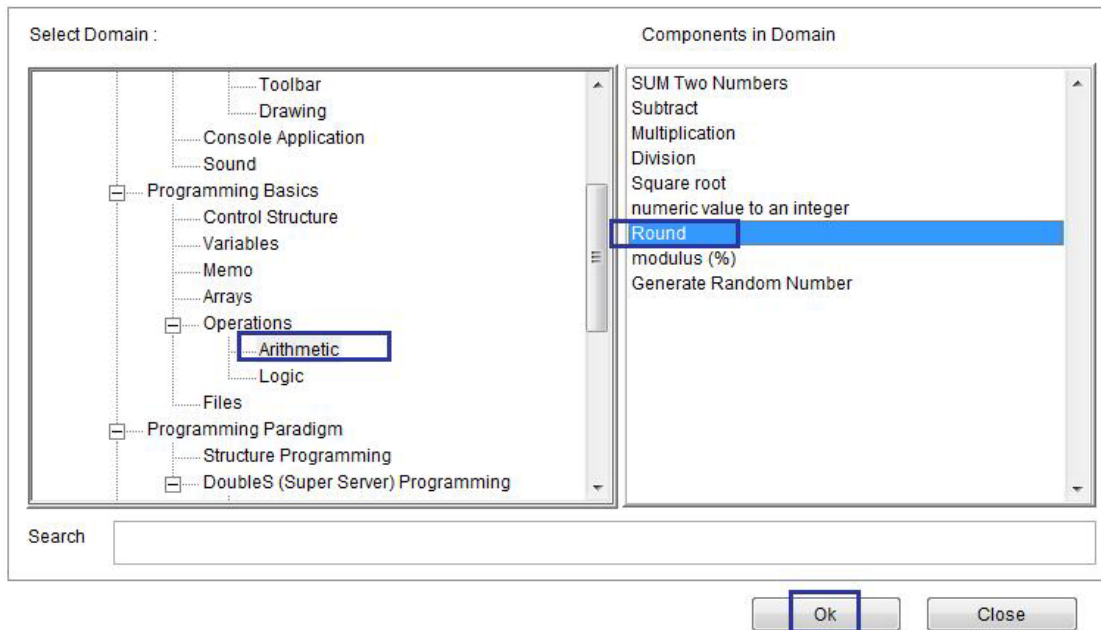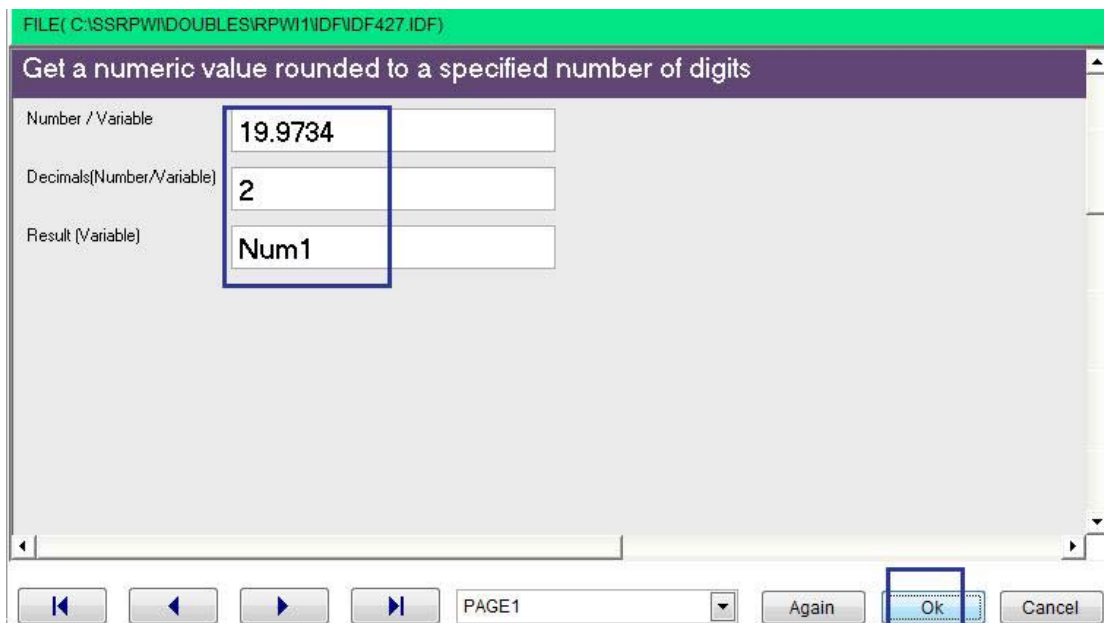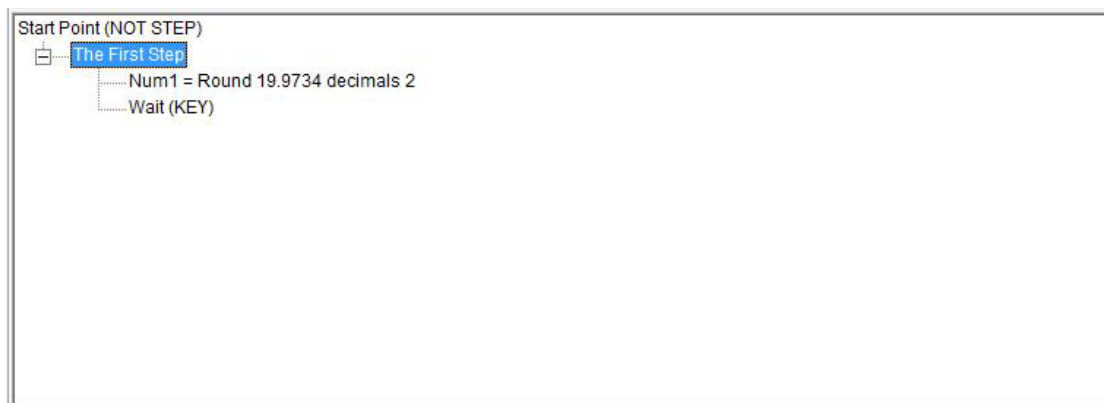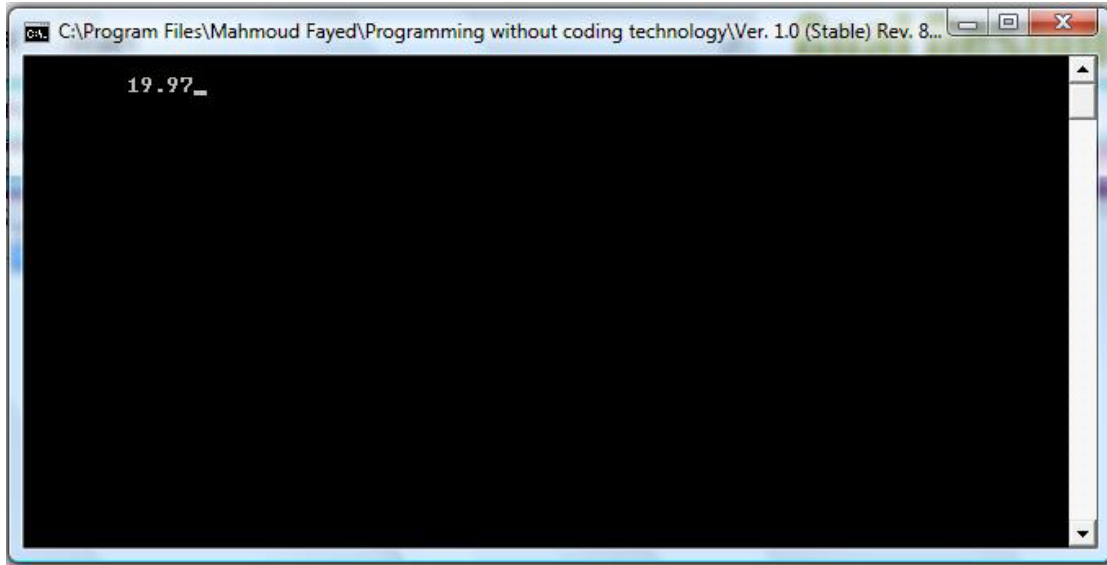- Component (Division)

Example - Screen shots:-

Domain (Arithmetic) – Component (Division)

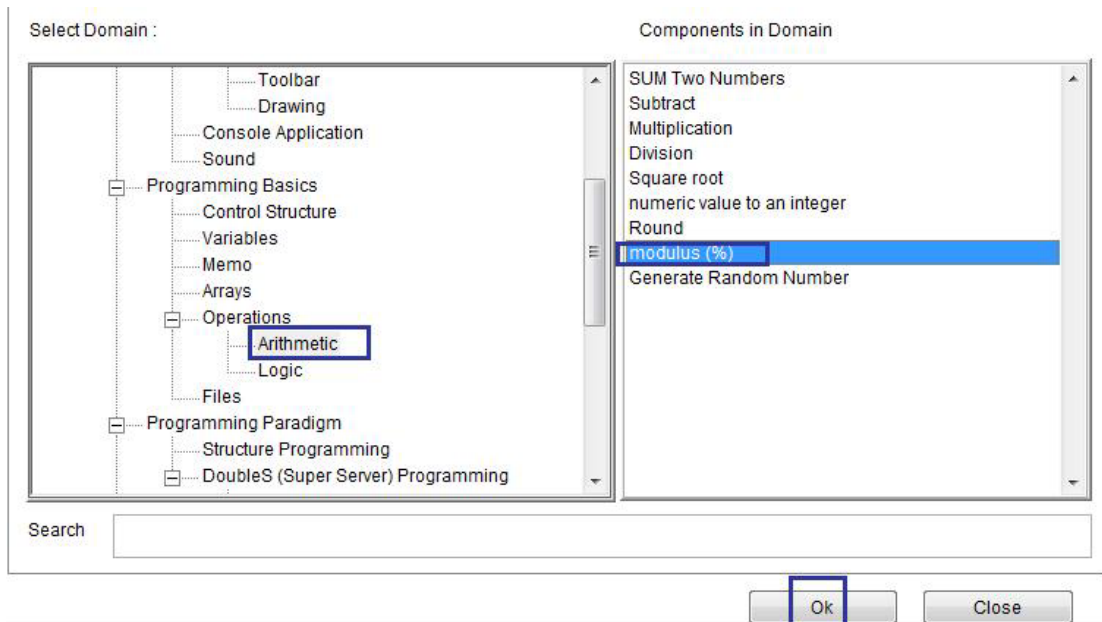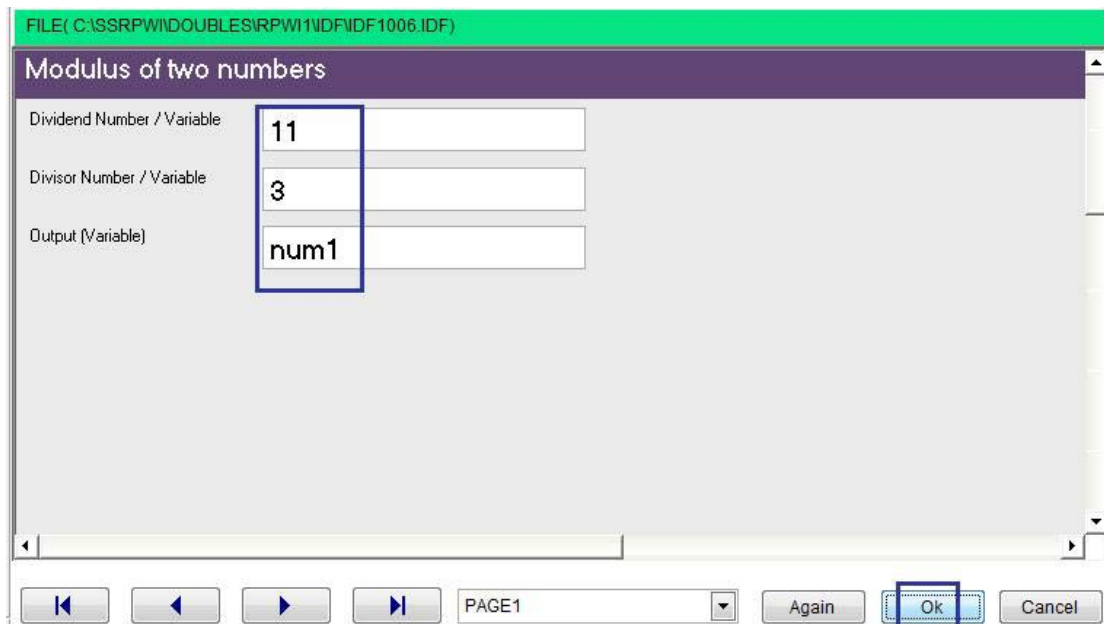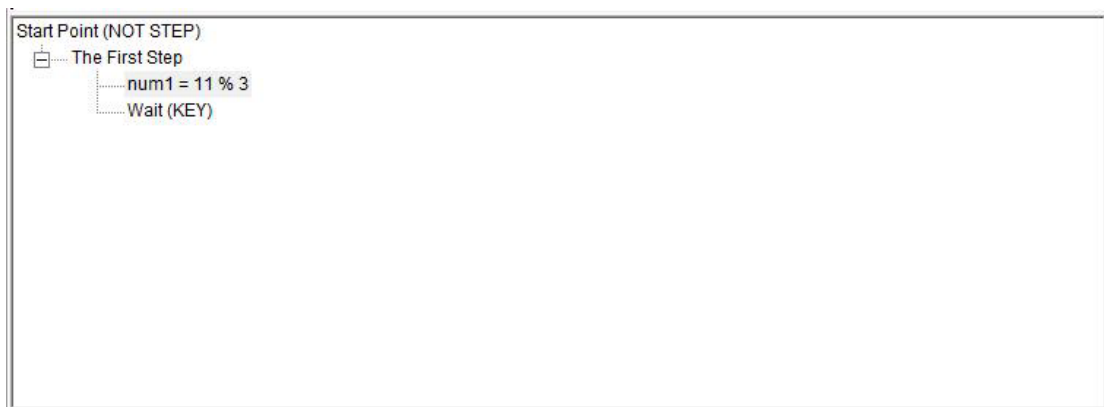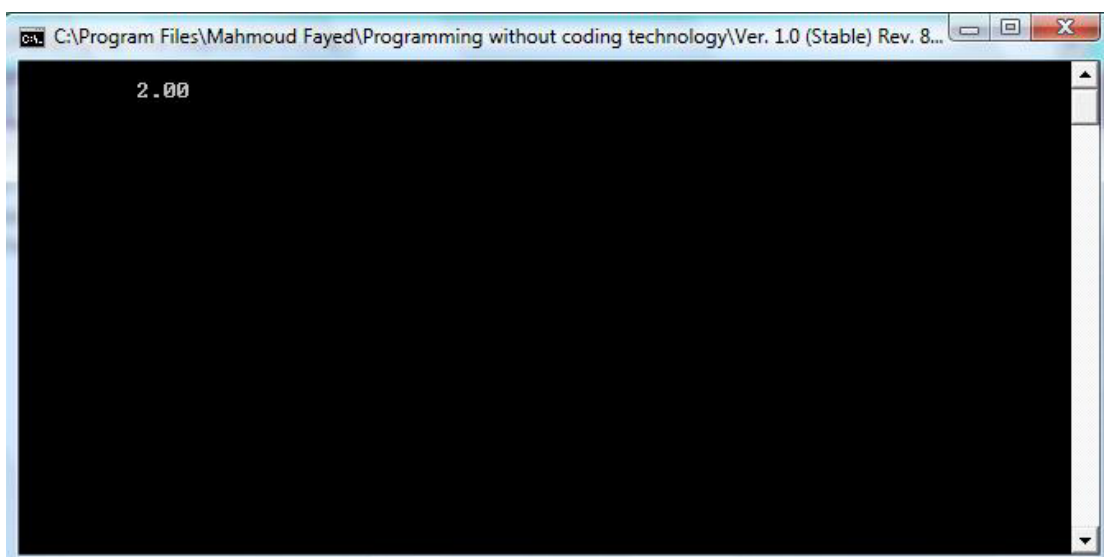
Interaction Page

Final Steps Tree

The final application

Square root

- Domain (Arithmetic)
- Component (Square root)

Example - Screen shots:-

Domain (Arithmetic) Component (Square root)

FILE(C:\SSRPWI\DOUBLES\RPWI1\IDF\IDF425.IDF)

Get the square root of a positive number

Number/ Variable

    4

Output (Variable)

    num1

| ◄◄ | ◄ | ► | ►► | PAGE1 ▼ | Again | Ok | Cancel |

Interaction Page

Start Point (NOT STEP)
└── The First Step
        ├── num1 = the square root of a positive number 4
        └── Wait (KEY)

Final Steps Tree

C:\Program Files\Mahmoud Fayed\Programming without coding technology\Ver. 1.0 (Stable) Rev. 8...

    2.00_

Final Application

Numeric value to an integer

- Domain (Arithmetic)
- Component (Numeric value to an integer)

Example - Screen shots:-

Domain (Arithmetic) – Component (Numeric value to an integer)

Interaction Page

Steps Tree

The Final Application

Round

- Domain (Arithmetic)
- Component (Round)

Example - Screen shots:-

Domain (Arithmetic) – Component (Round)
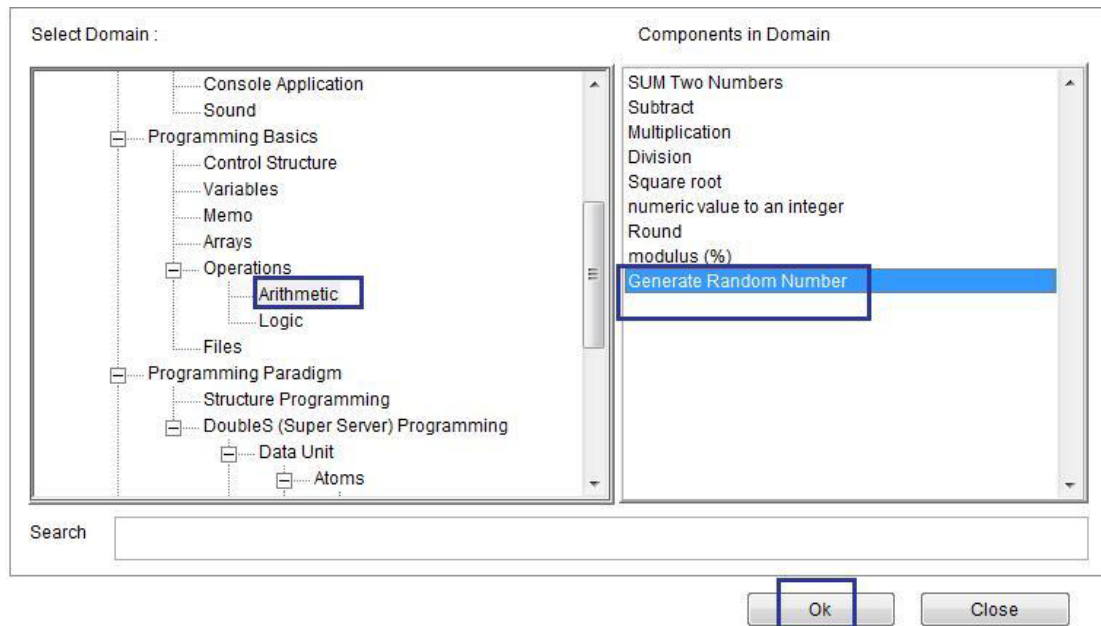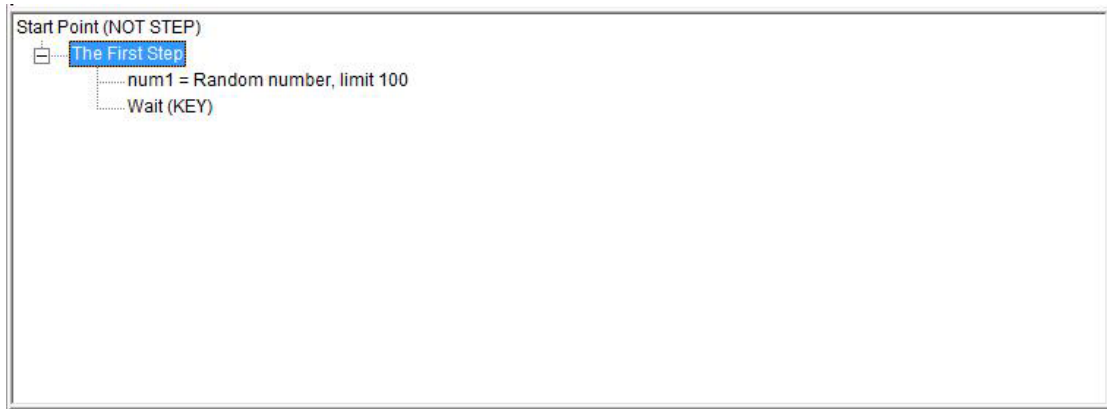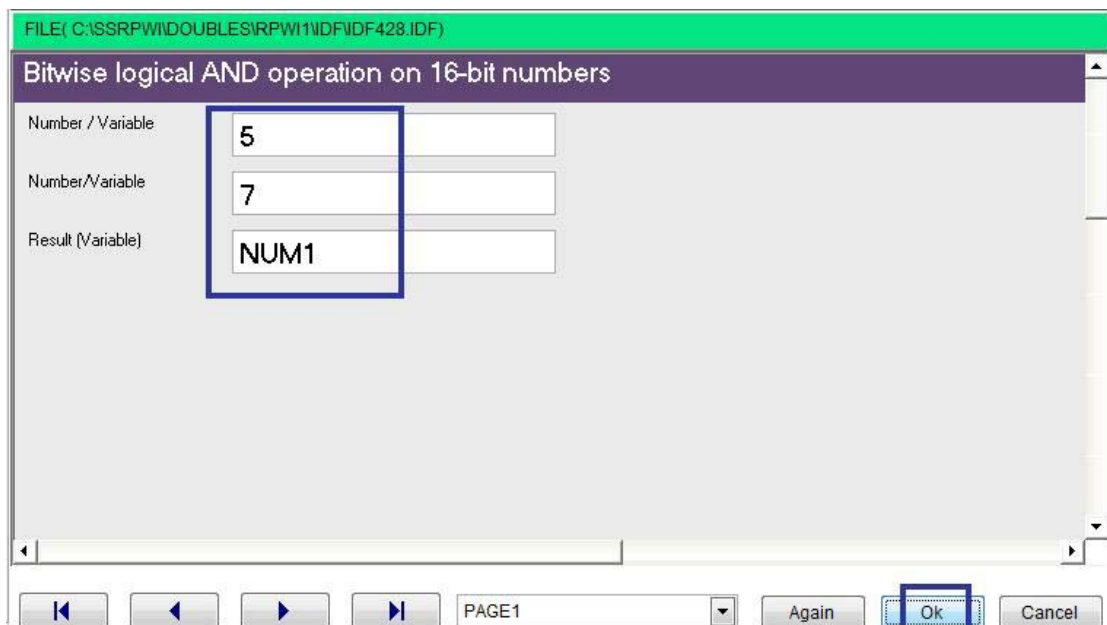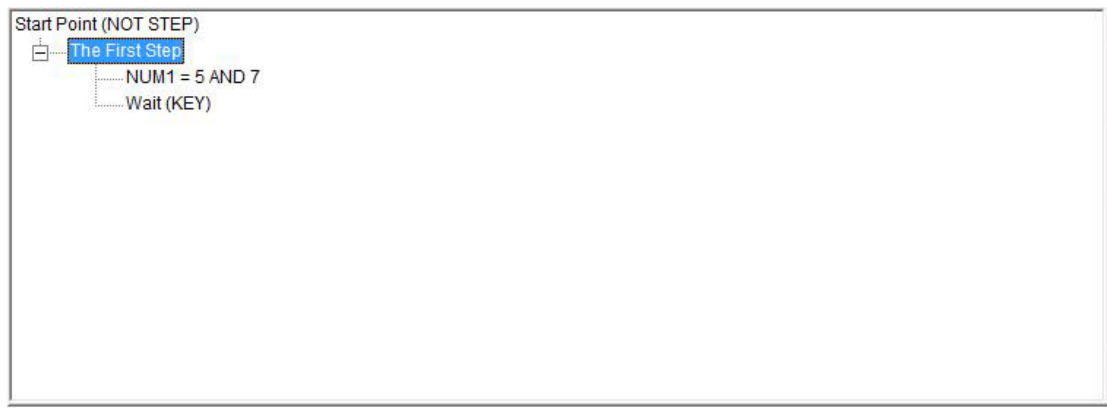

Interaction Page

Final Steps Tree

Final application

Modulus (%)

- Domain (Arithmetic)
- Component (Modulus)

Example - Screen shots:-

Domain (Arithmetic) – Component (Modulus)

Interaction Page

Steps Tree

The Final Application

Generate random number

- Domain (Arithmetic)
- Component (Generate random number)

Example - Screen shots:-

Domain (Arithmetic) – Component (Generate Random Number)

Interaction Page

Final Steps Tree

The Final Application

Logical Variables and logical operations

Domain (Logic)

Components:-

- AND
- OR
- NOT
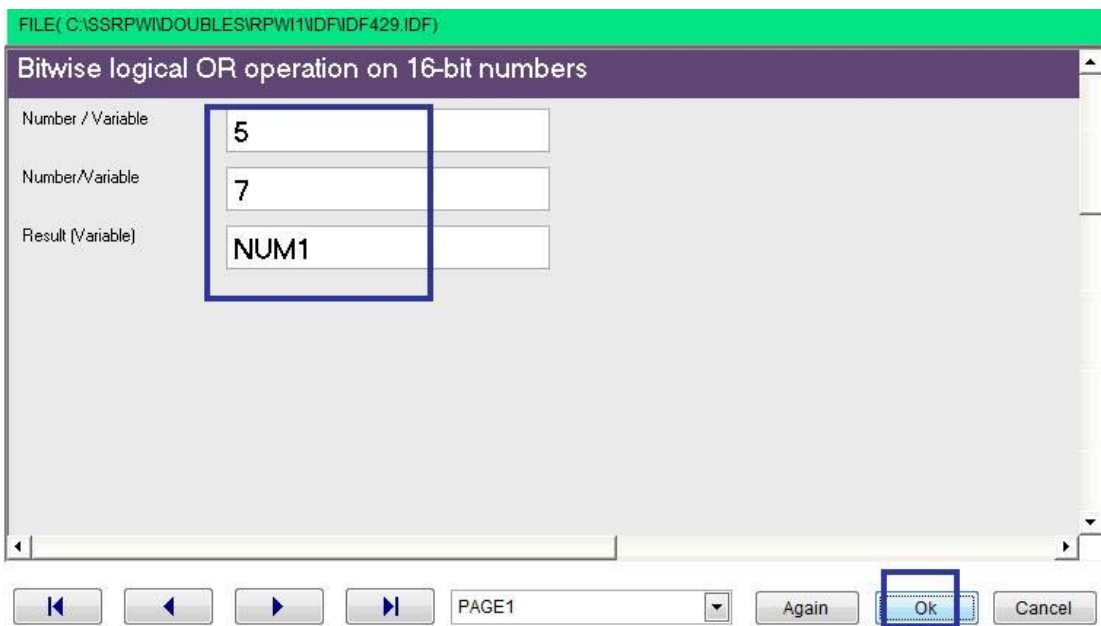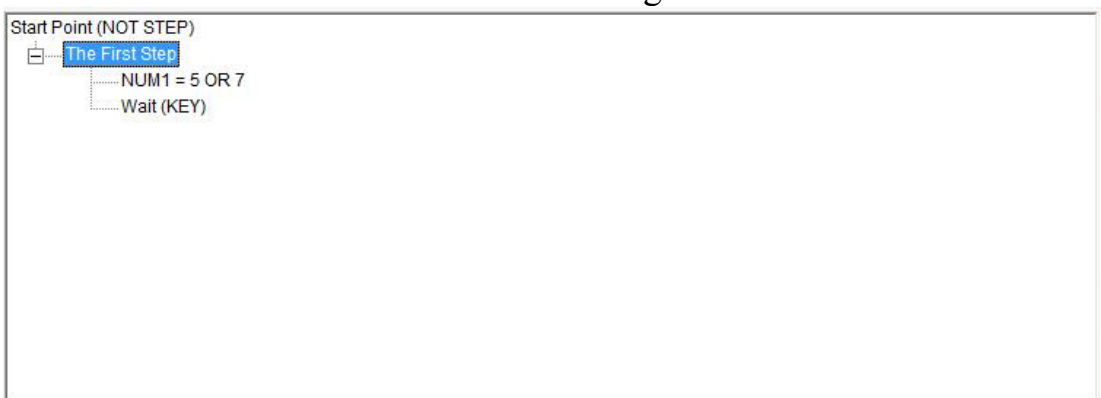- XOR
- SET BIT
- CLEAR BIT
- ROTATION – LEFT

AND

- Domain (Logic)
- Component (AND)

Example - Screen shots:-

Domain (Logic) – Component (AND)

Interaction Page

```
Start Point (NOT STEP)
  The First Step
          NUM1 = 5 AND 7
          Wait (KEY)
```

Final Steps Tree

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```
    5_
```

Final Application

OR

- Domain (Logic)
- Component (OR)

Example - Screen shots:-

Domain (Logic) – Component (OR)

Interaction Page

Final Steps Tree

Final Application
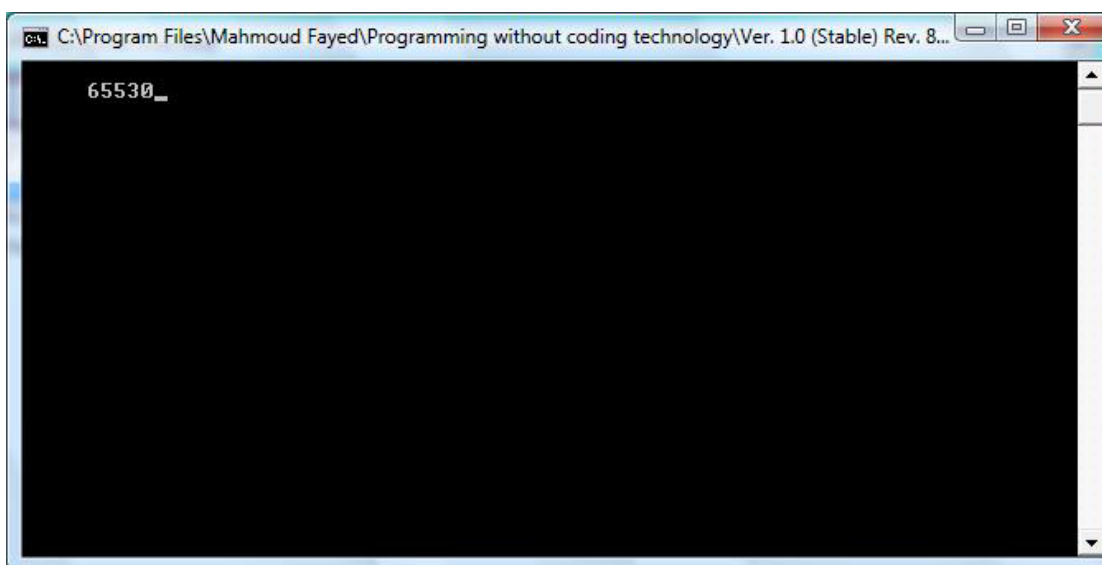
NOT

- Domain (Logic)
- Component (NOT)

Example - Screen shots:-

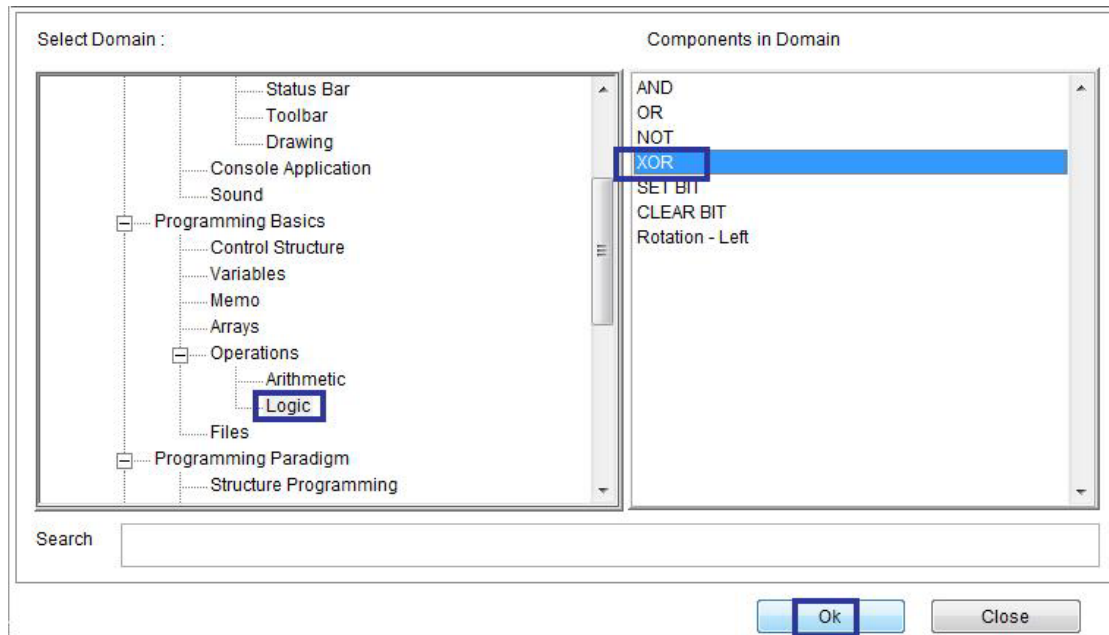Domain (Logic) Component (NOT)
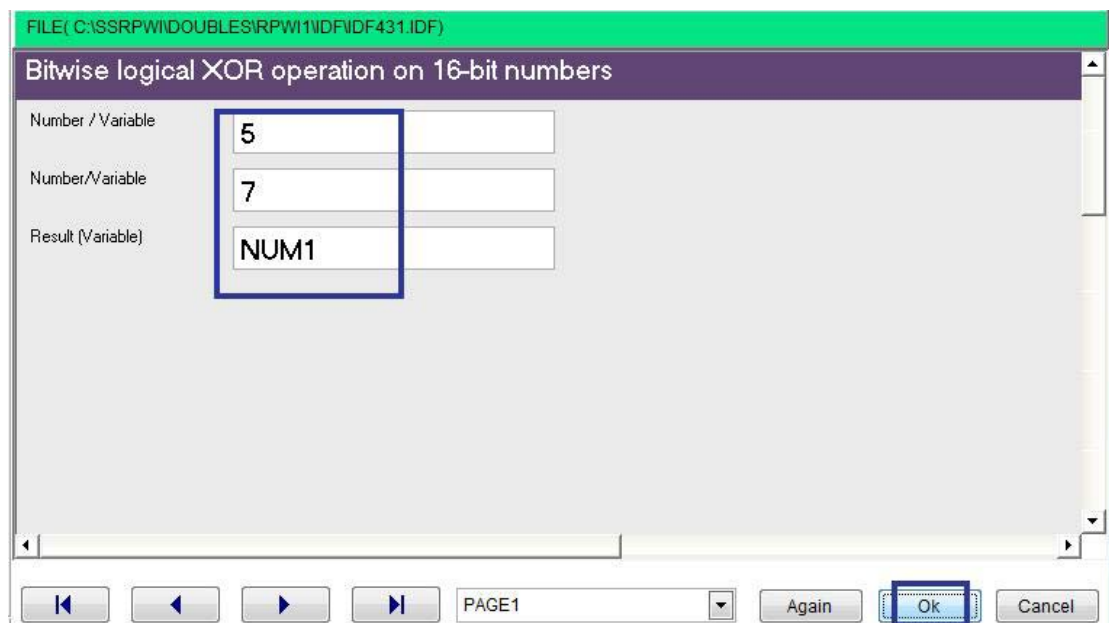
Interaction Pages

Final Steps Tree

Final Application

`

XOR

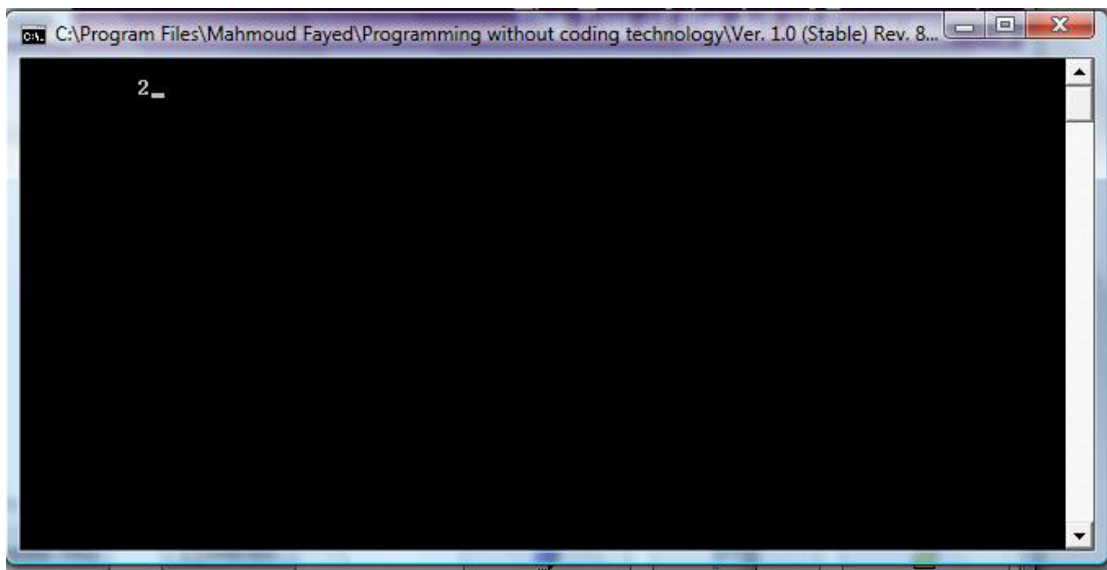- Domain (Logic)
- Component (XOR)

Example - Screen shots:-

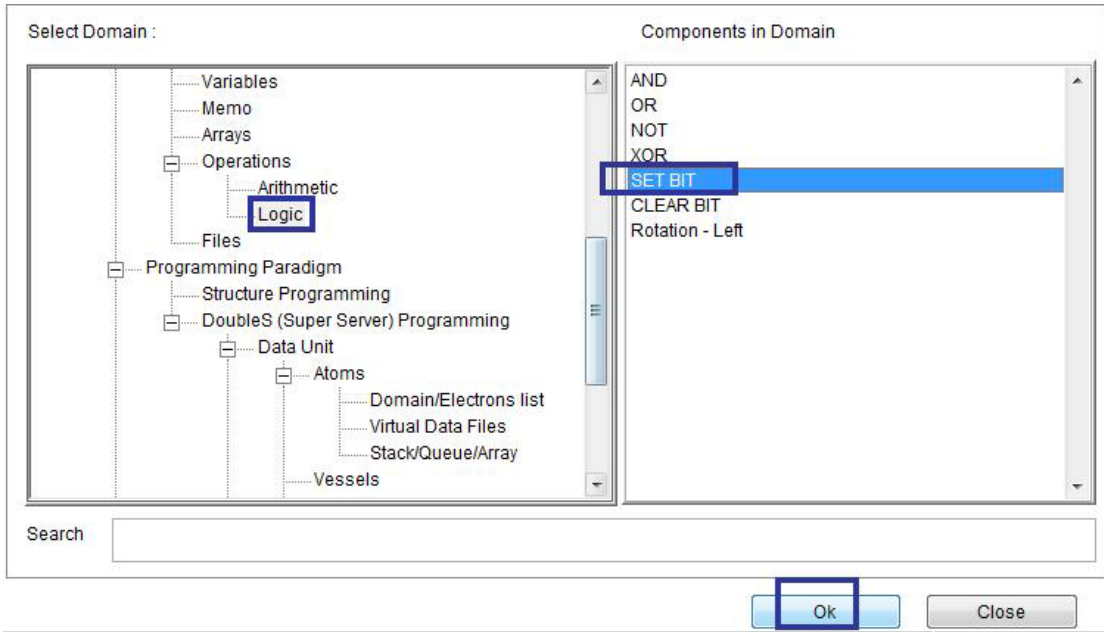Domain (Logic) – Component (XOR)

Interaction Page

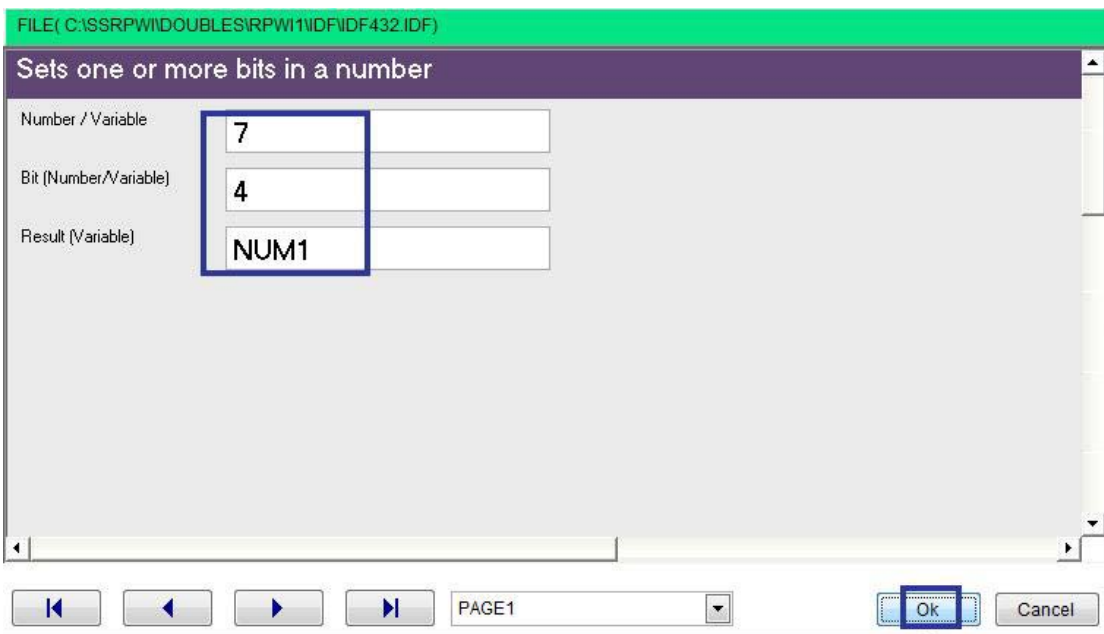Final Steps Tree

The Final Application

SET BIT

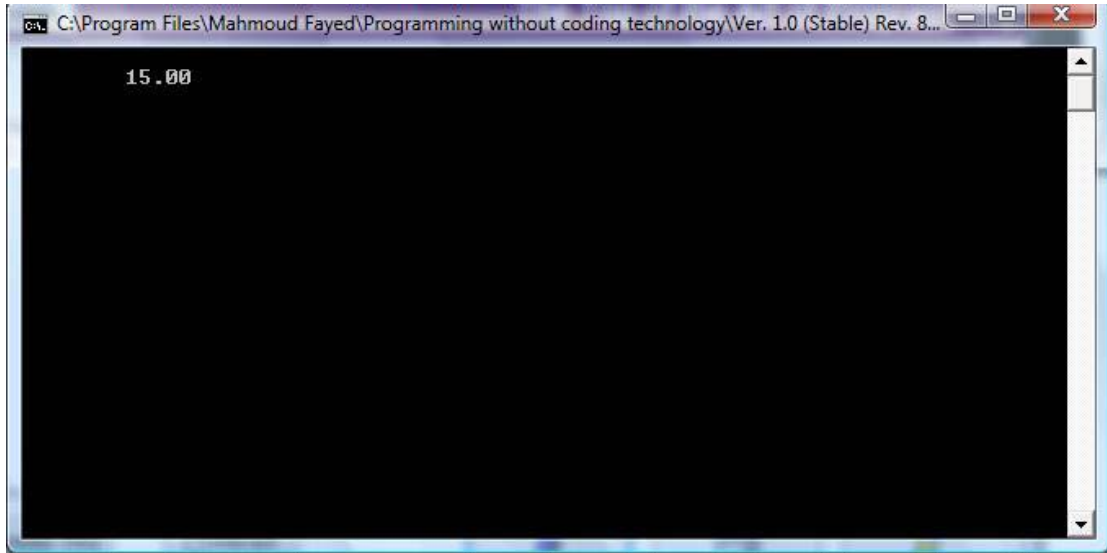- Domain (Logic)
- Component (SET BIT)

Example - Screen shots:-

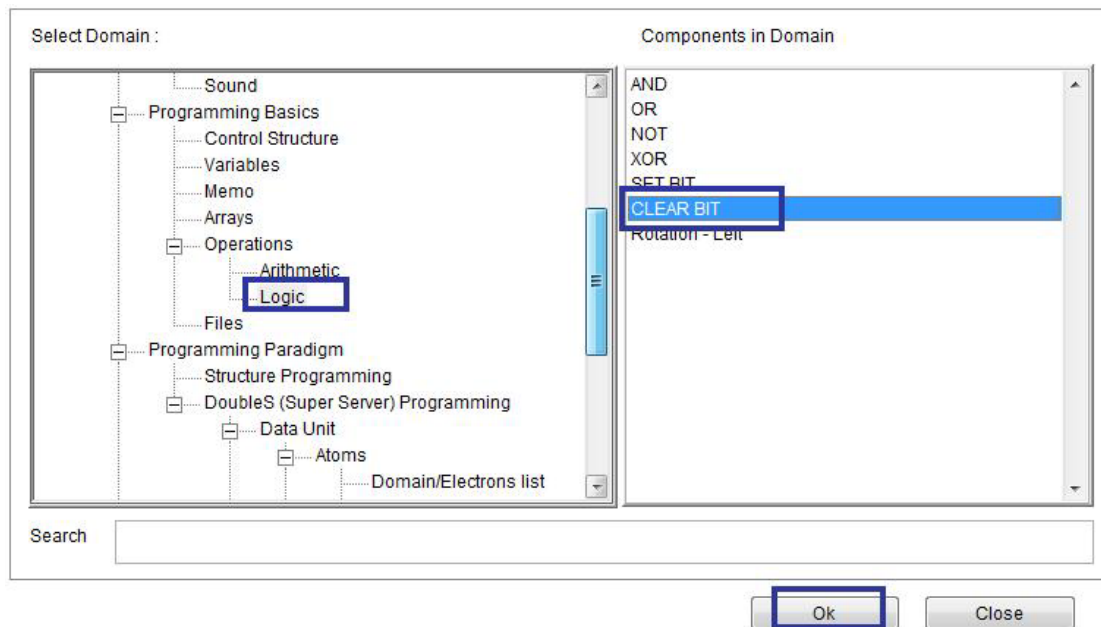Domain (Logic) – Component (SET BIT)

Interaction Page

Steps Tree

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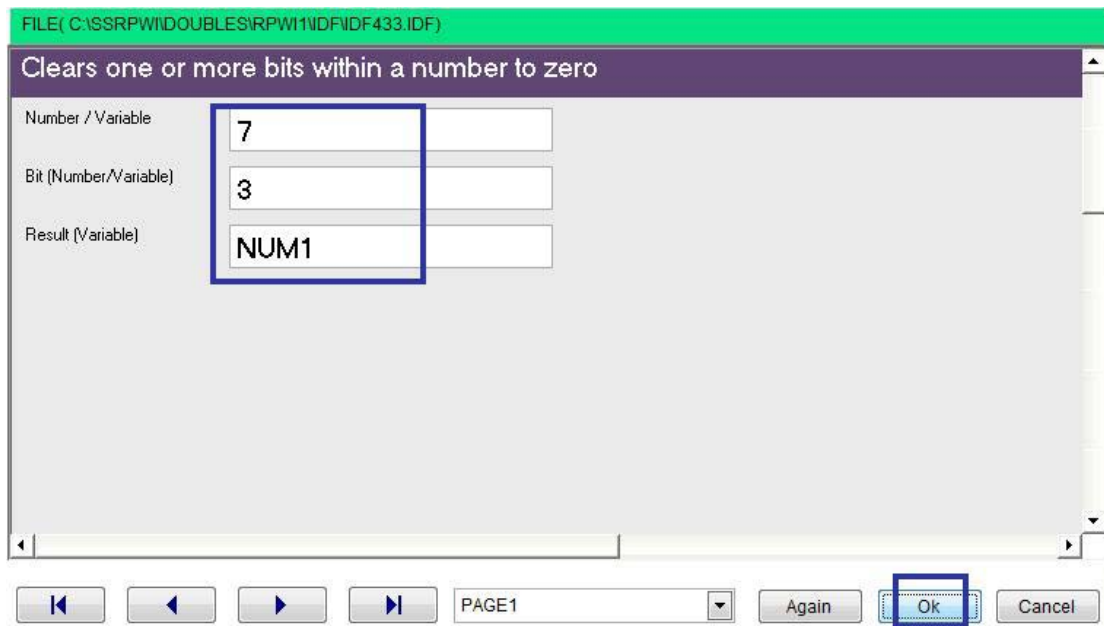The Final Application

CLEAR BIT

- Domain (Logic)
- Component (CLEAR BIT)

Example - Screen shots:-
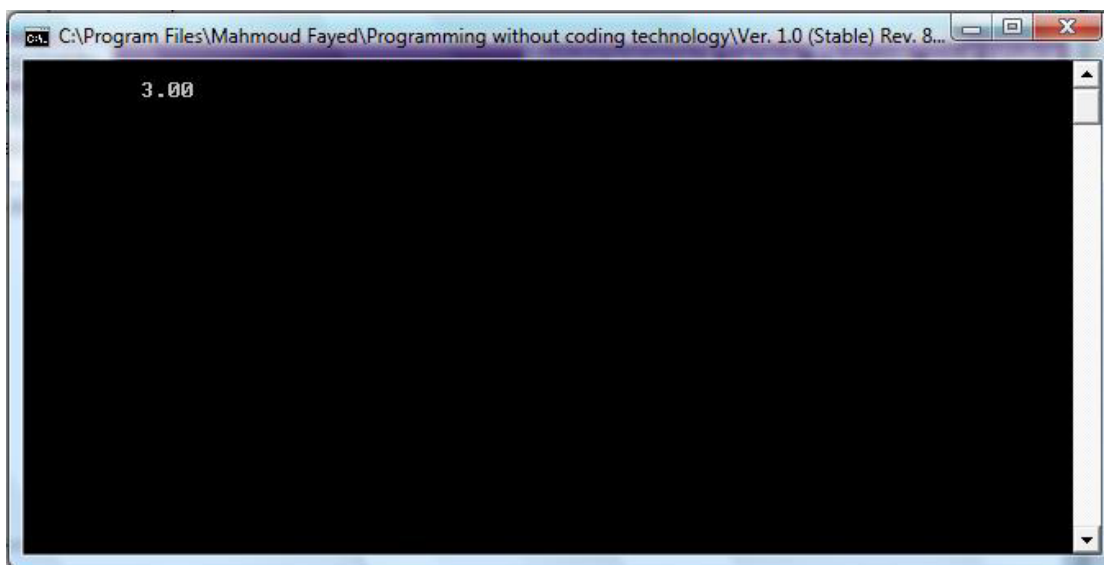

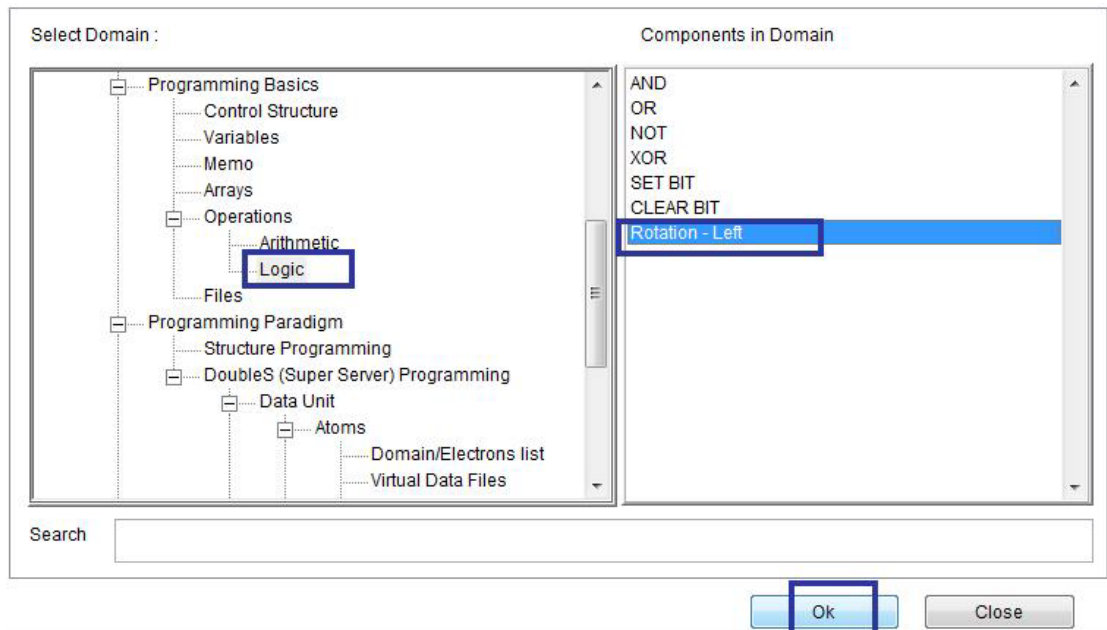Domain (Logic) Component (CLEAR BIT)

Interaction Page

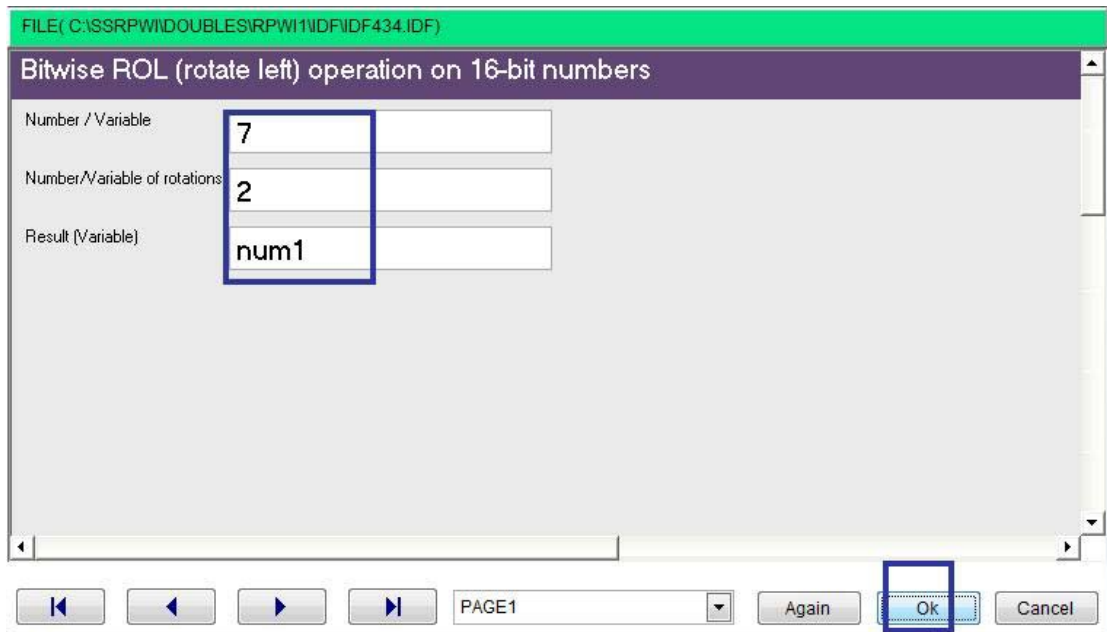Final Steps Tree

The Final Application

ROTATION – LEFT
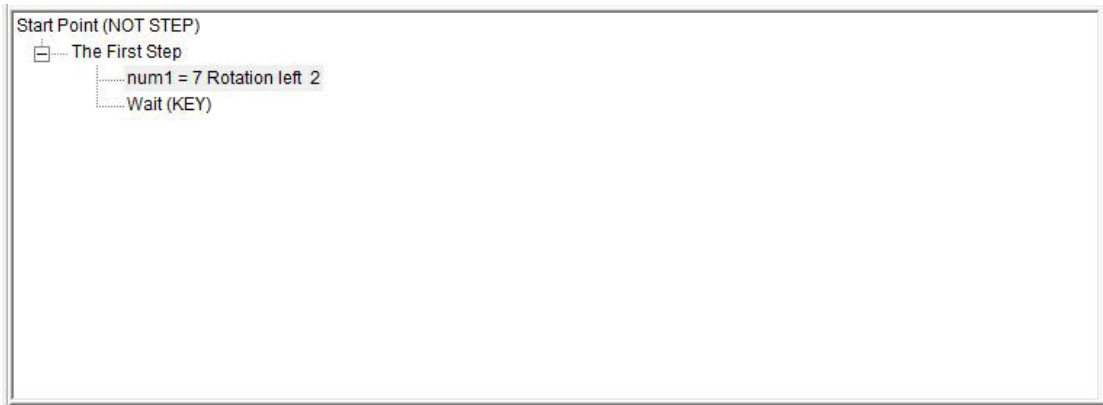
- Domain (Logic)
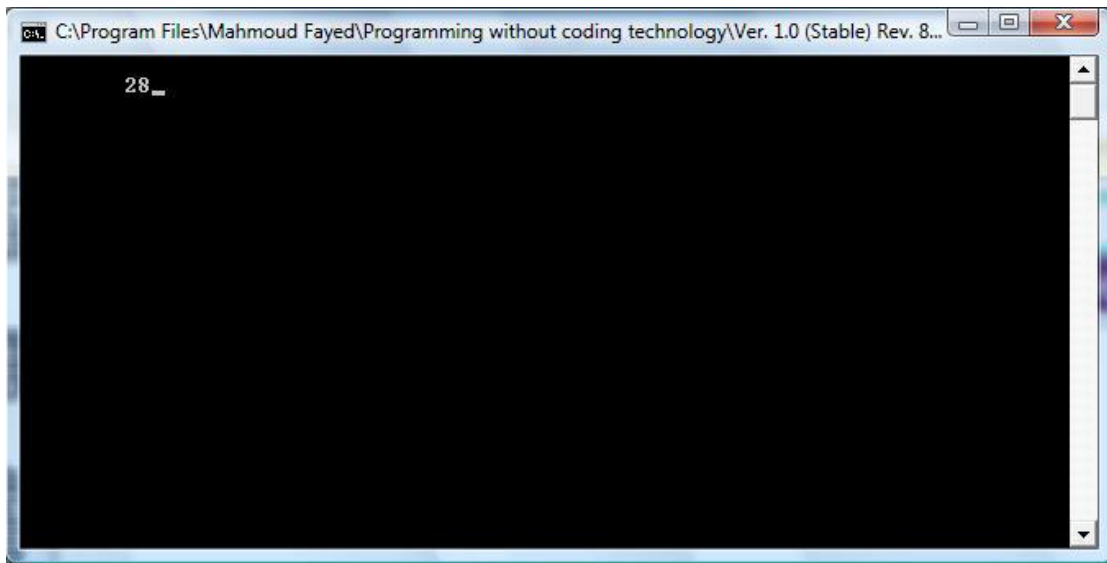- Component (ROTATION - LEFT)

Example - Screen shots:-

Domain(Logic) Component (Rotation – Left)

Interaction Page
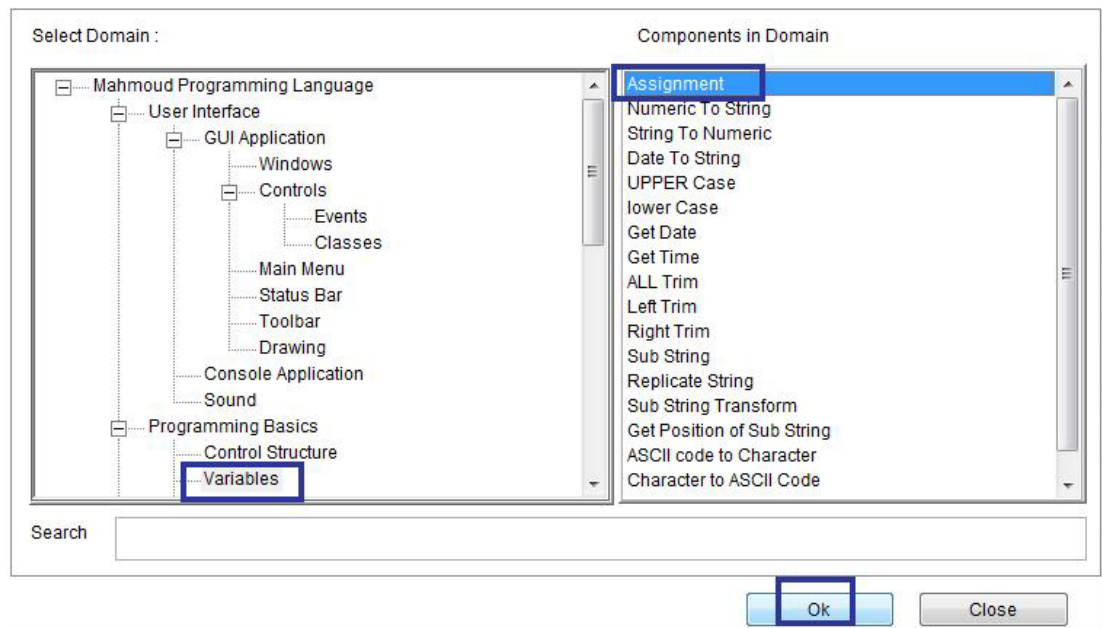
Final Steps Tree

The Final Application

Expressions

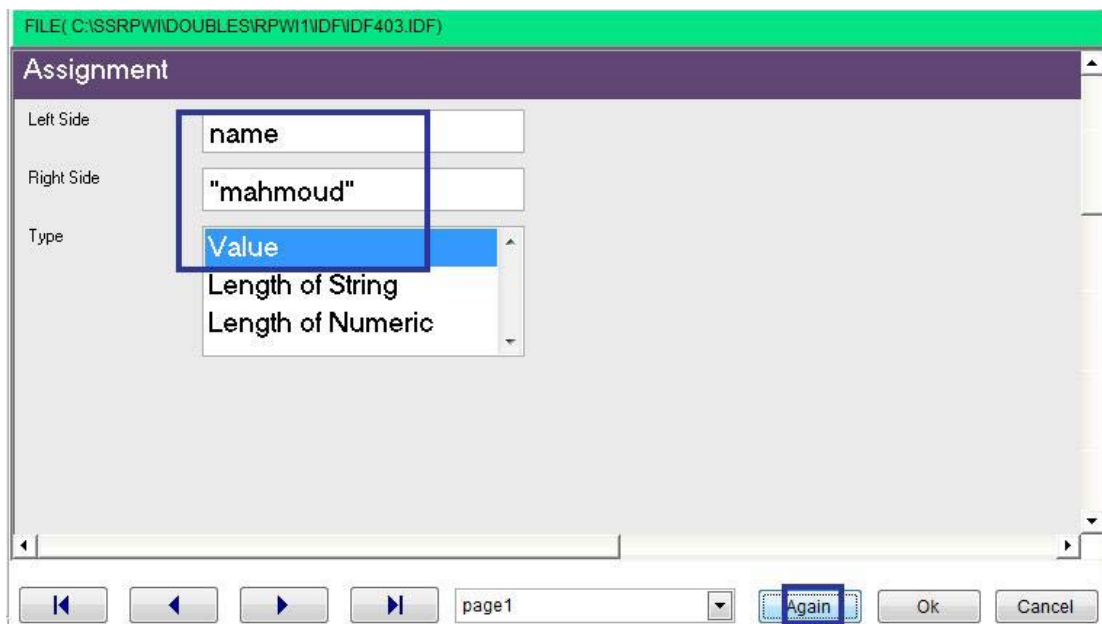You can build expressions by mixing data, variables & operators (arithmetic & logic)

Examples:

- "Hello " + cName
- (3 + num1) * (5 + num2)
- (.T. .AND. .F.) .OR. (.F. .OR. .T.)

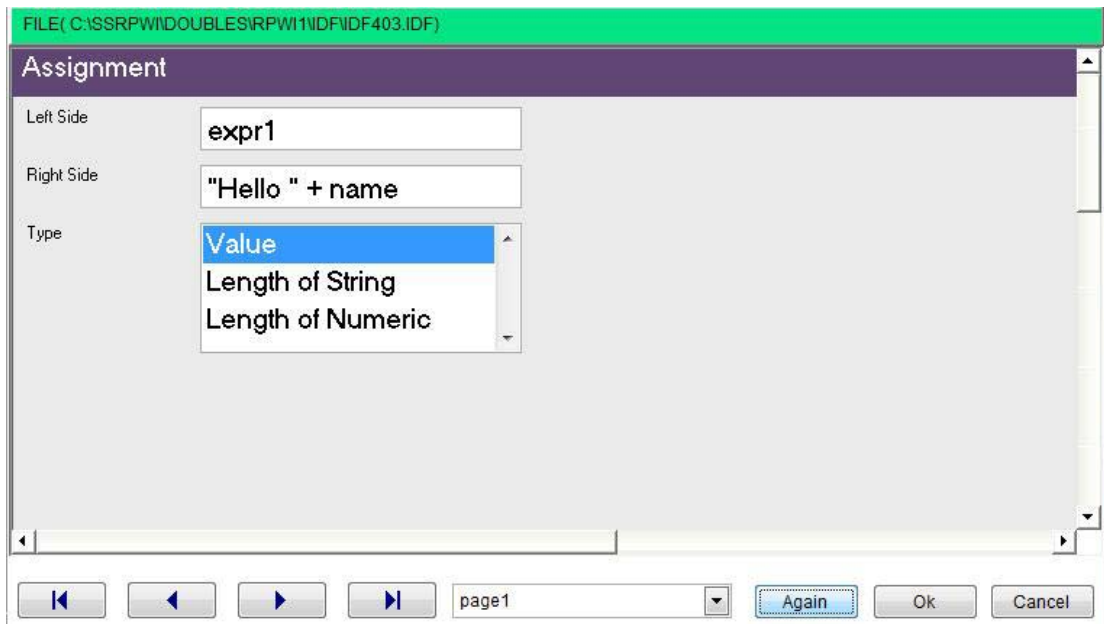| .T.	Logical True
.F.	Logical False
.AND.	Logical AND
.NOT.	Logical NOT
.OR.	Logical OR

Example - Screen shots:-
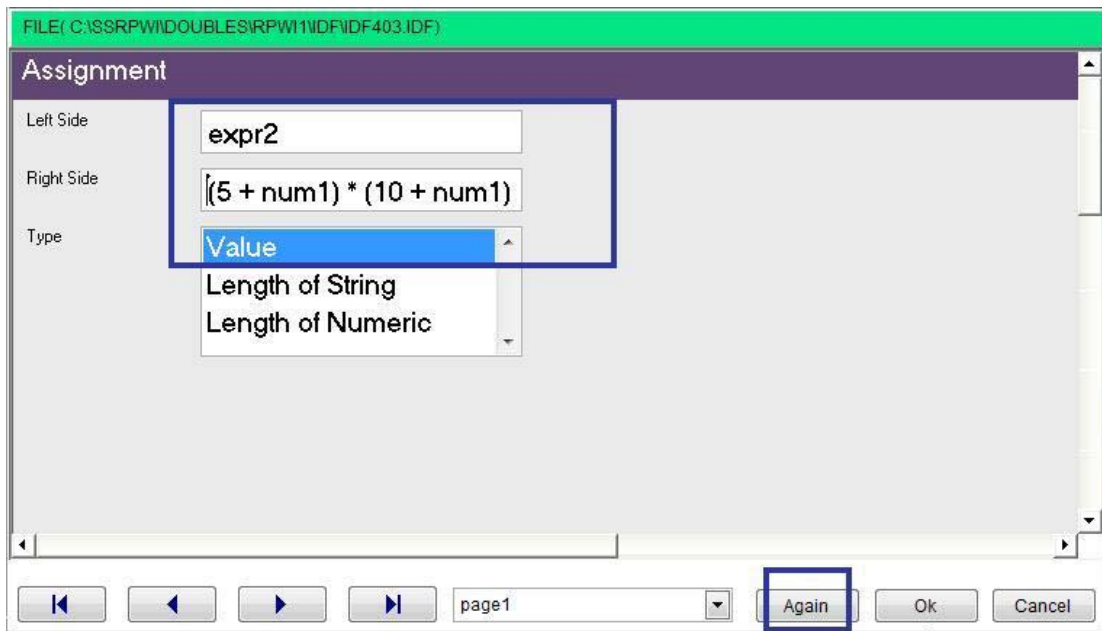

Domain (Variables) Component (Assignment)

Inteaction Page

FILE(C:\SSRPWI\DOUBLES\RPWI1\IDF\IDF403.IDF)

Assignment

Left Side: expr1

Right Side: "Hello " + name

Type:
Value
Length of String
Length of Numeric

page1   Again   Ok   Cancel

Interaction Page

FILE(C:\SSRPWI\DOUBLES\RPWI1\IDF\IDF403.IDF)

Assignment

Left Side: num1

Right Side: 12

Type:
Value
Length of String
Length of Numeric

page1   Again   Ok   Cancel
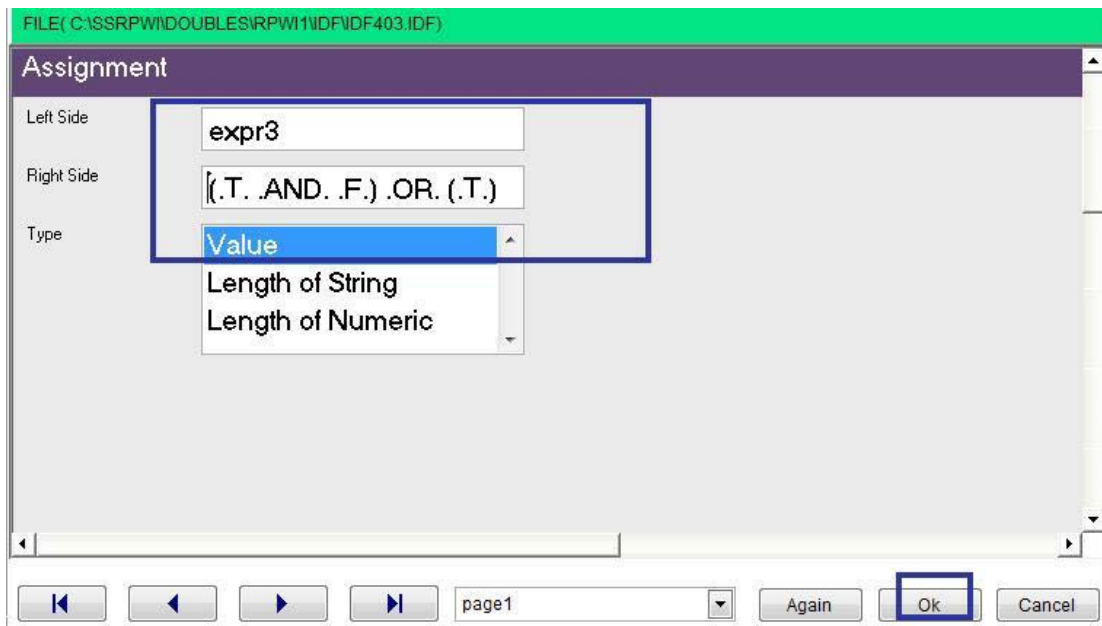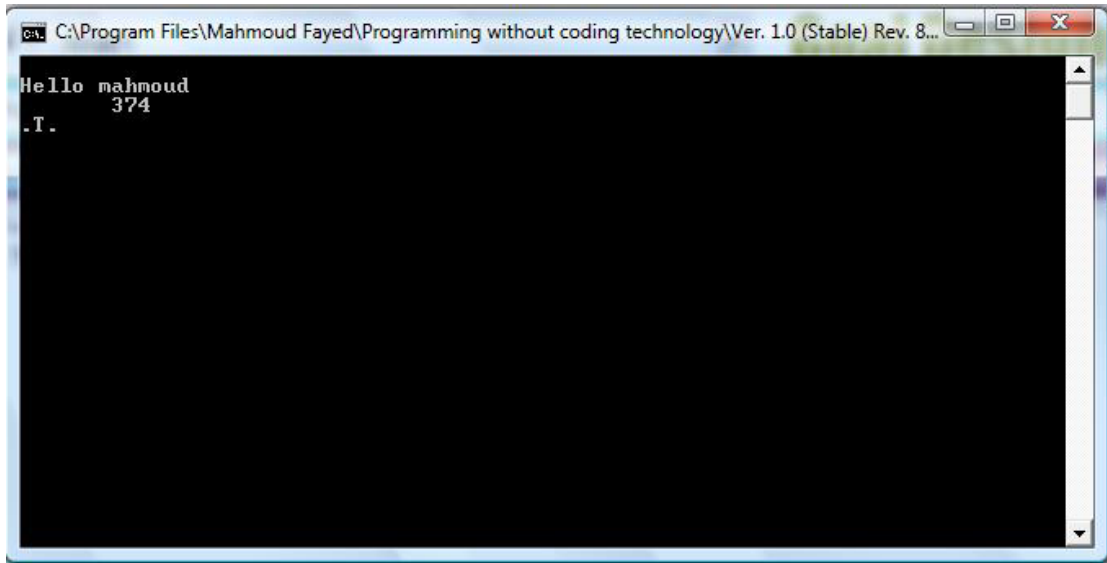
Interaction Page

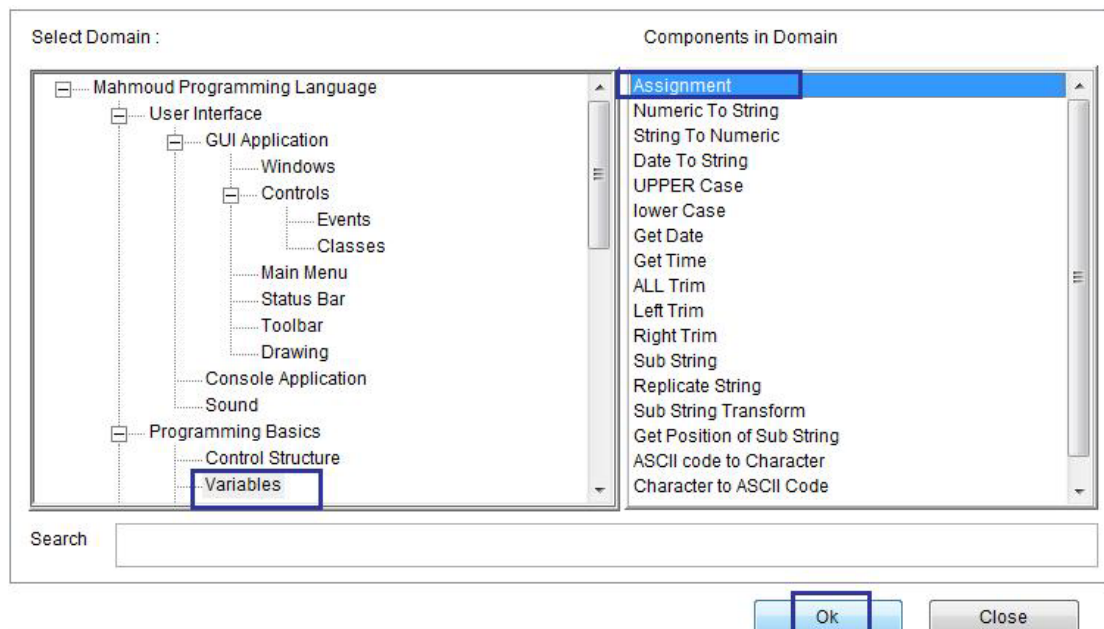Interaction Page

Interaction Page

The final Steps tree

The final application

Macro

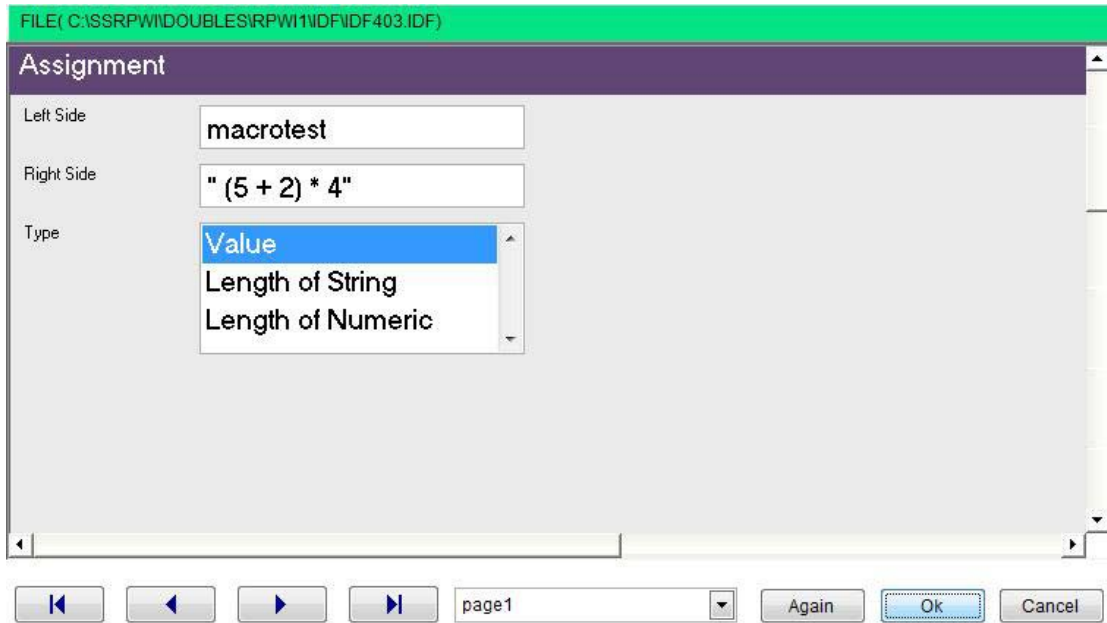One of the most powerful features is the MACRO Operator '&'

Allows for runtime compilation of any valid expression Such compiled expression may be used as a VALUE, i.e. the right side of an Assignment, but more interestingly, such compiled expression may be used to resolve the LEFT side of an assignment, i.e. variables, or Database FIELD. Additionally the Macro Operator may compile and execute function calls, complete assignments, or even list of arguments, and the result of the macro may be used to resolve any of the above contexts in the compiled application.
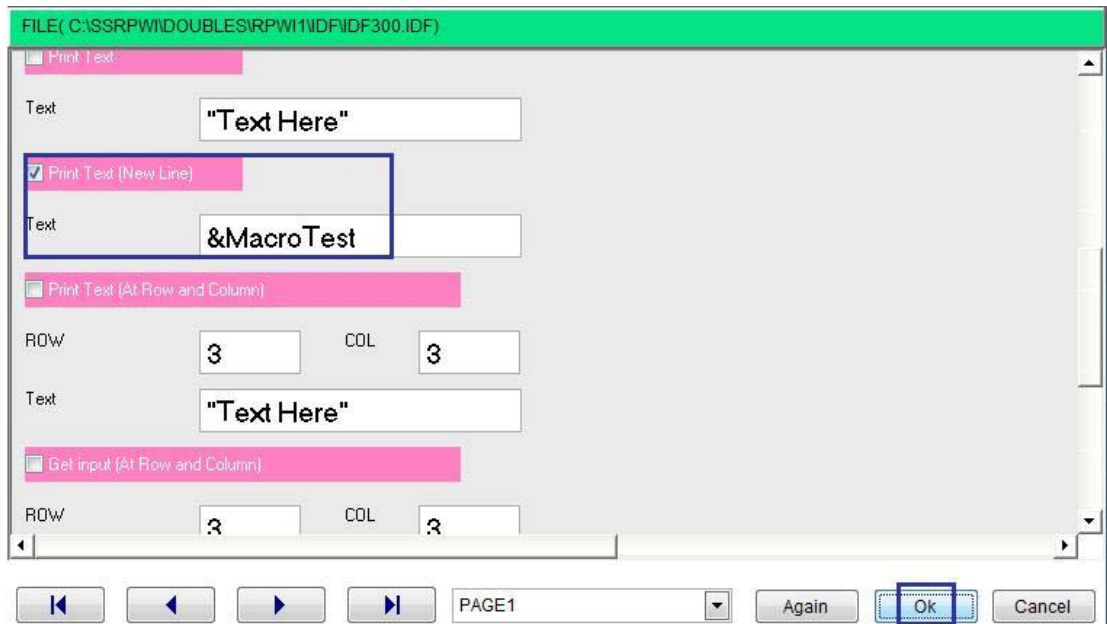
Example - Screen shots:-

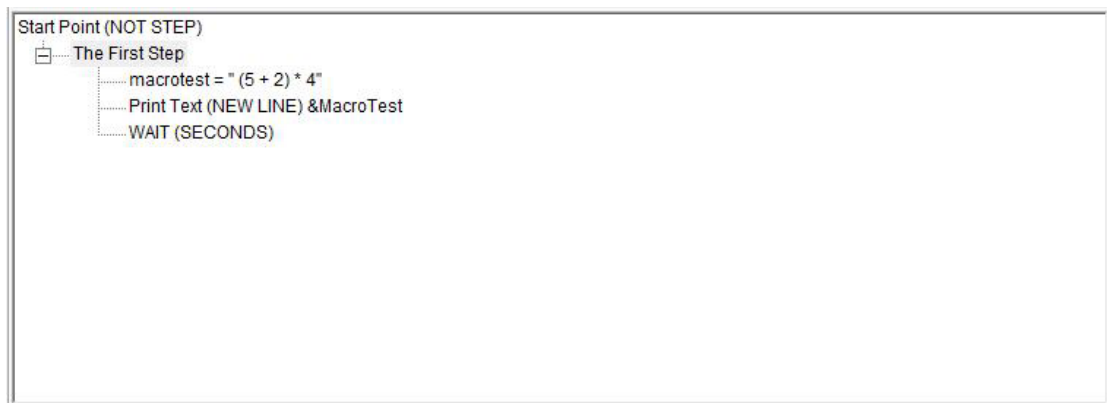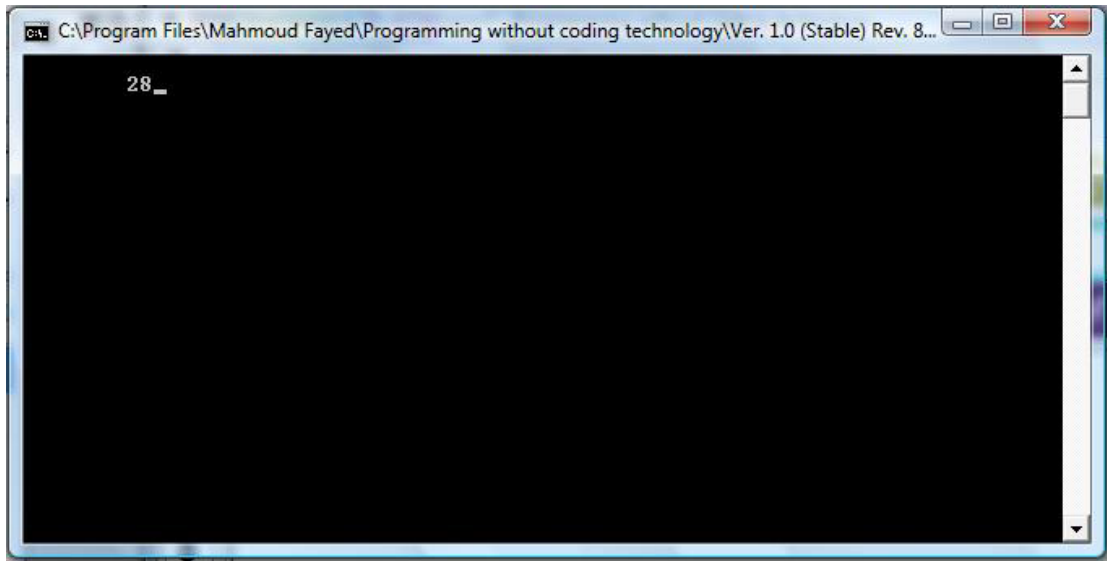Domain Name (Variables) – Component (Assignment)

FILE(C:\SSRPWI\DOUBLES\RPWI1\IDF\IDF403.IDF)

Assignment

Left Side: macrotest

Right Side: " (5 + 2) * 4"

Type:
- Value
- Length of String
- Length of Numeric

page1 | Again | Ok | Cancel

Interaction Page

FILE(C:\SSRPWI\DOUBLES\RPWI1\IDF\IDF300.IDF)

Print Text

Text: "Text Here"

☑ Print Text (New Line)

Text: &MacroTest

Print Text (At Row and Column)

ROW: 3   COL: 3

Text: "Text Here"

Get input (At Row and Column)

ROW: 3   COL: 3

PAGE1 | Again | Ok | Cancel

Interaction Pages

Start Point (NOT STEP)
└─ The First Step
    ├── macrotest = " (5 + 2) * 4"
    ├── Print Text (NEW LINE) &MacroTest
    └── WAIT (SECONDS)

Final Steps Tree

The Final Application

Date & Time

Components:-
- Get Date
- Get Time

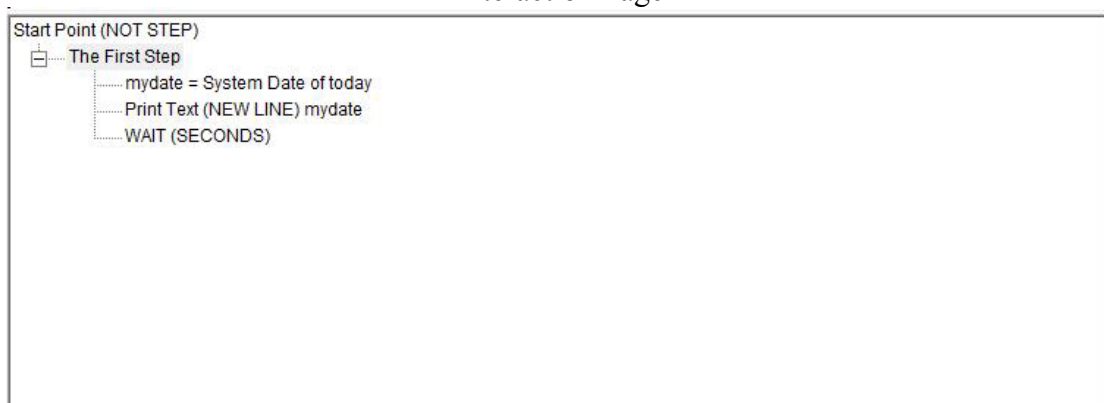## Get Date

Example - Screen shots:-
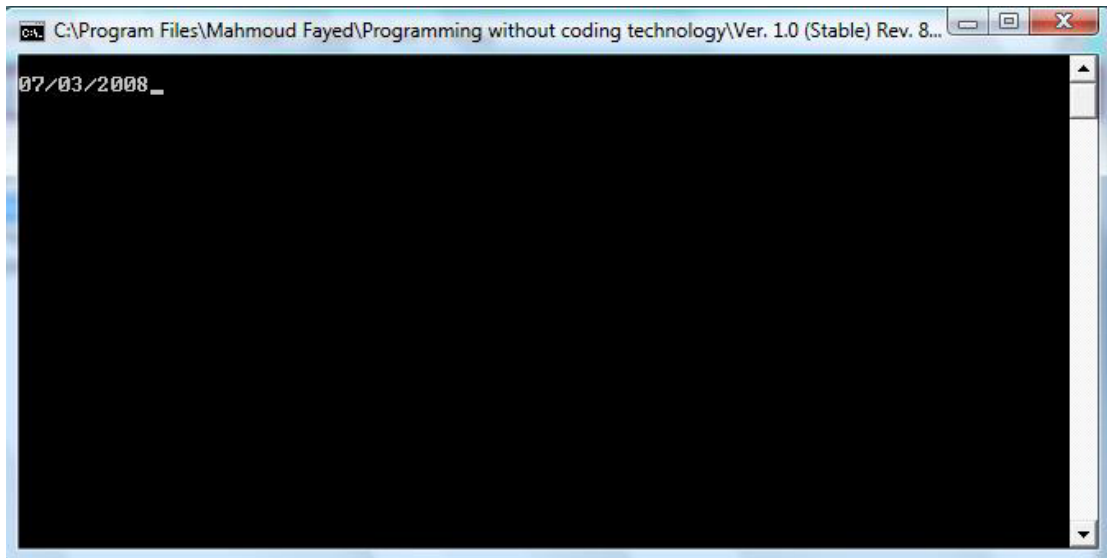

Domain (Variables) – Component (Get Date)

Interaction Page

Interaction Page

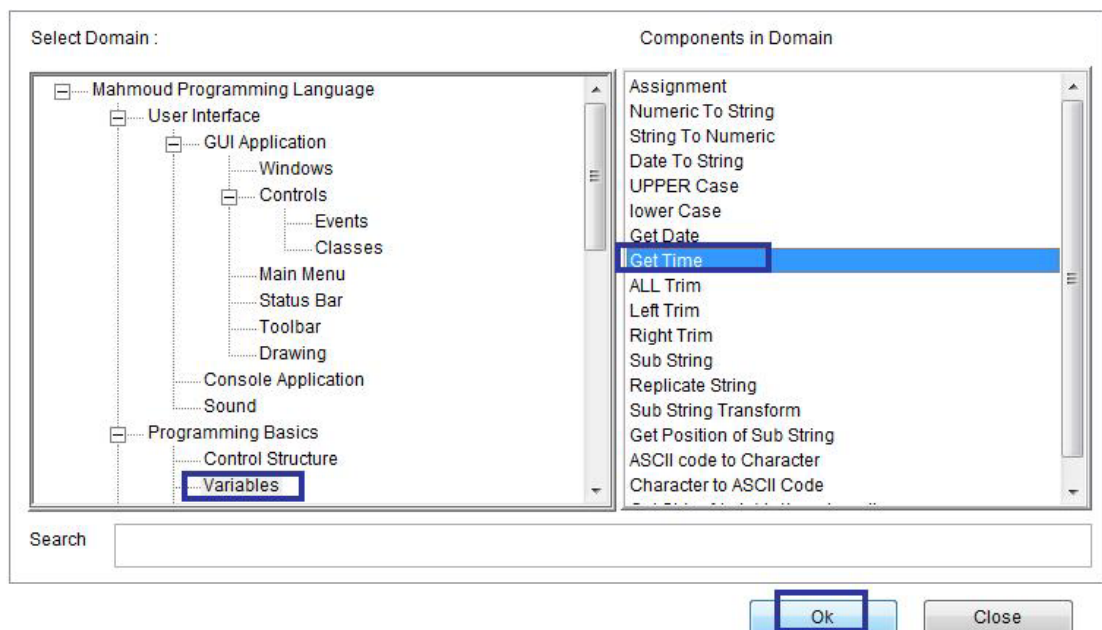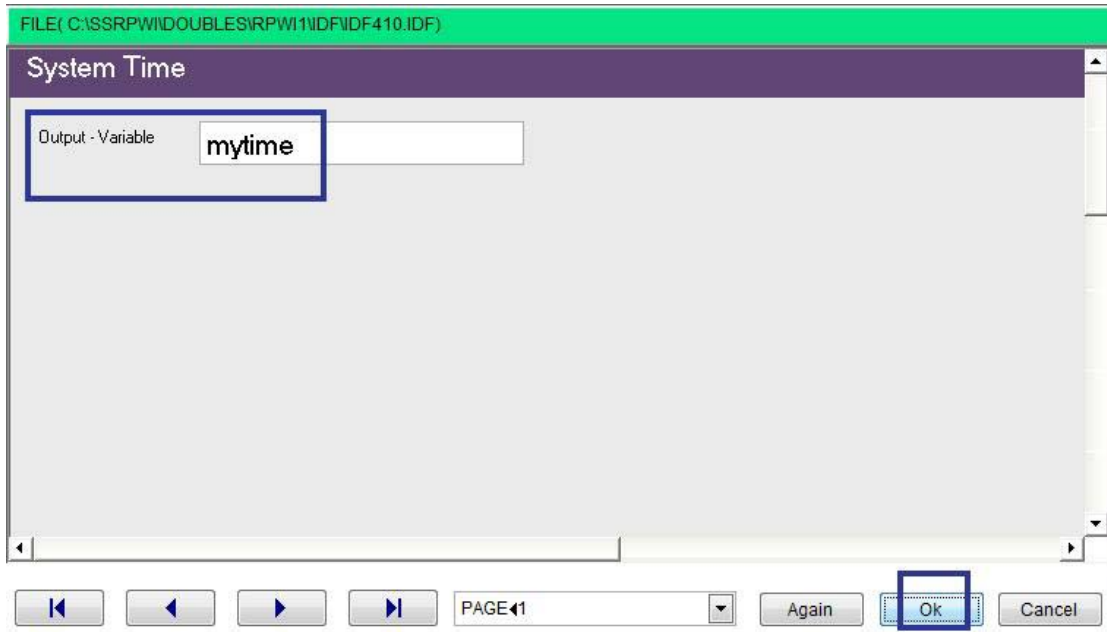
Final Steps Tree

The Final Applications

Get Time

Example - Screen shots:-

Domain (Variables) – Component (Get Time)
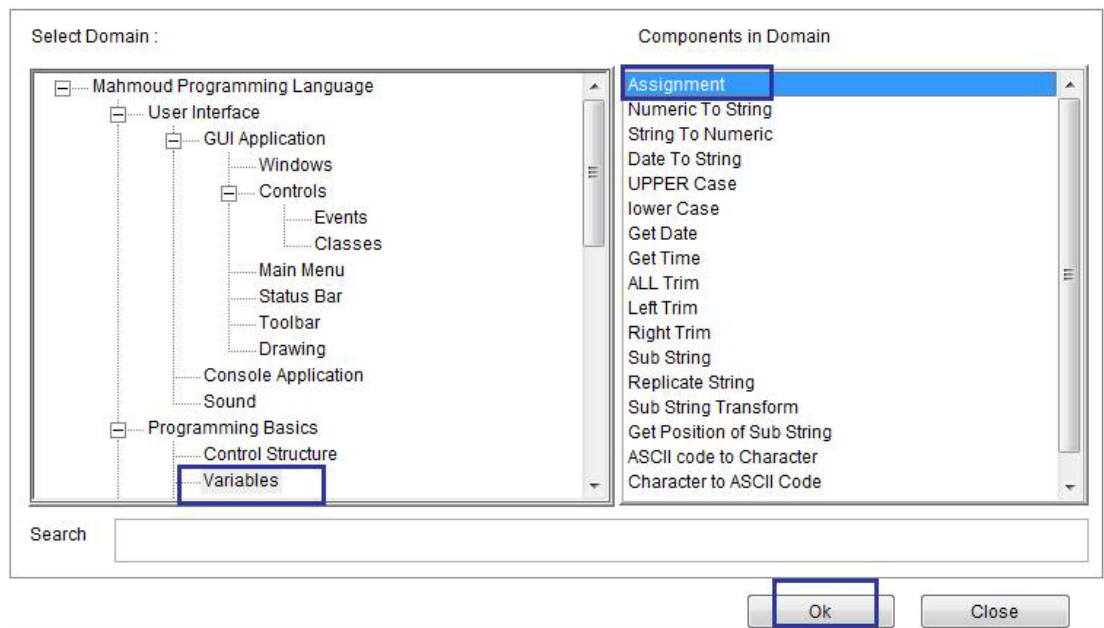
Interaction Page

Steps Tree

The Final Steps

Converting between data types
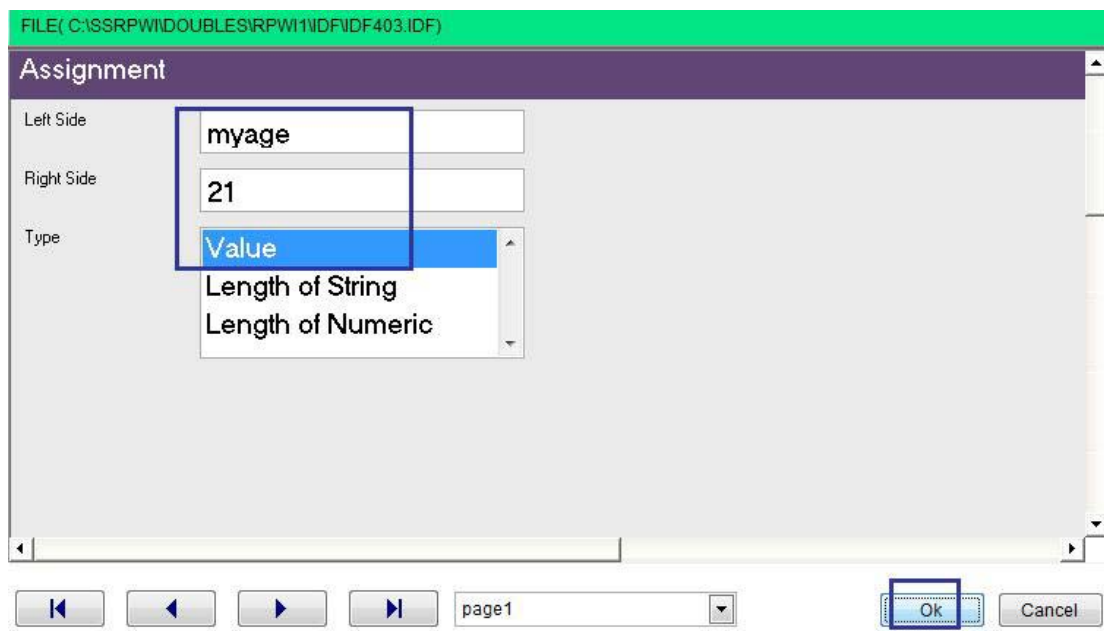
- Numeric to String
- String to Numeric
- Date to String

Numeric to String
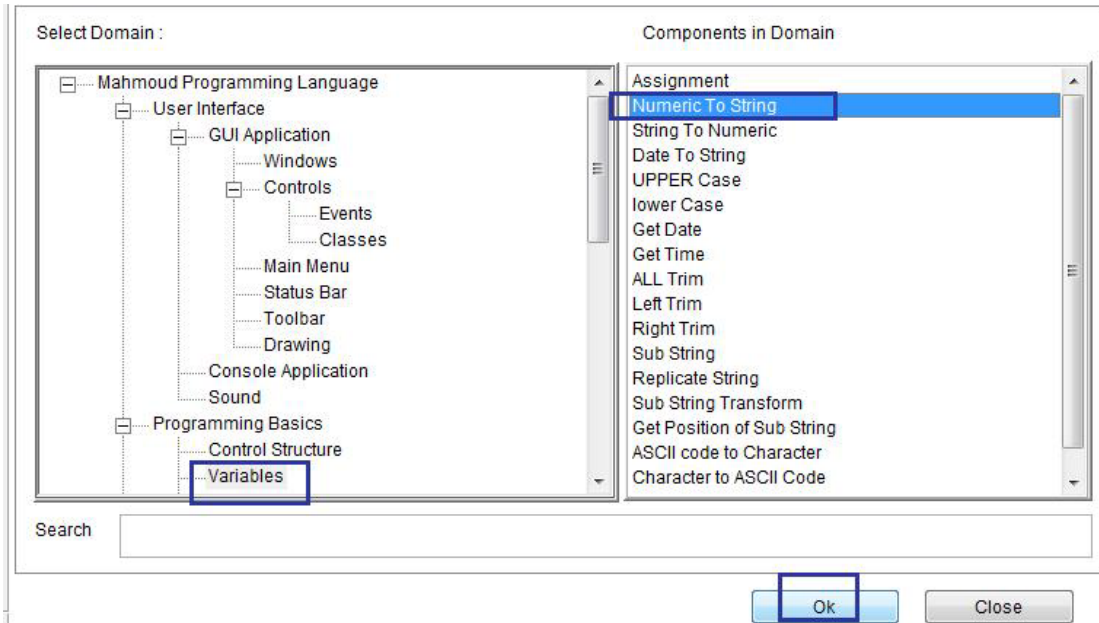
- Domain (Variables)
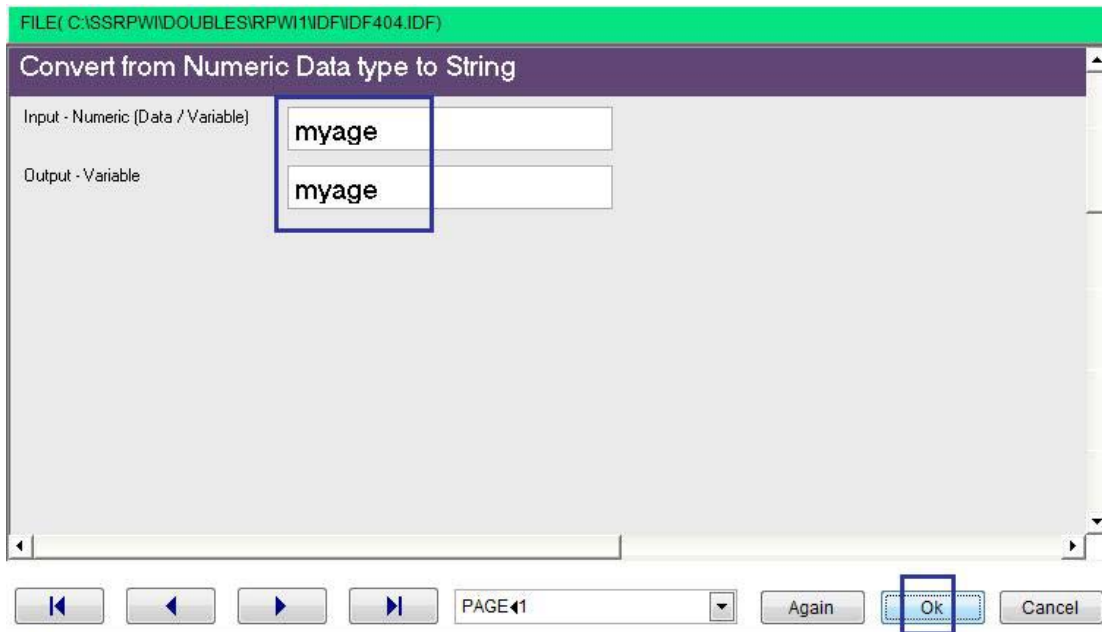- Component (Numeric to String)

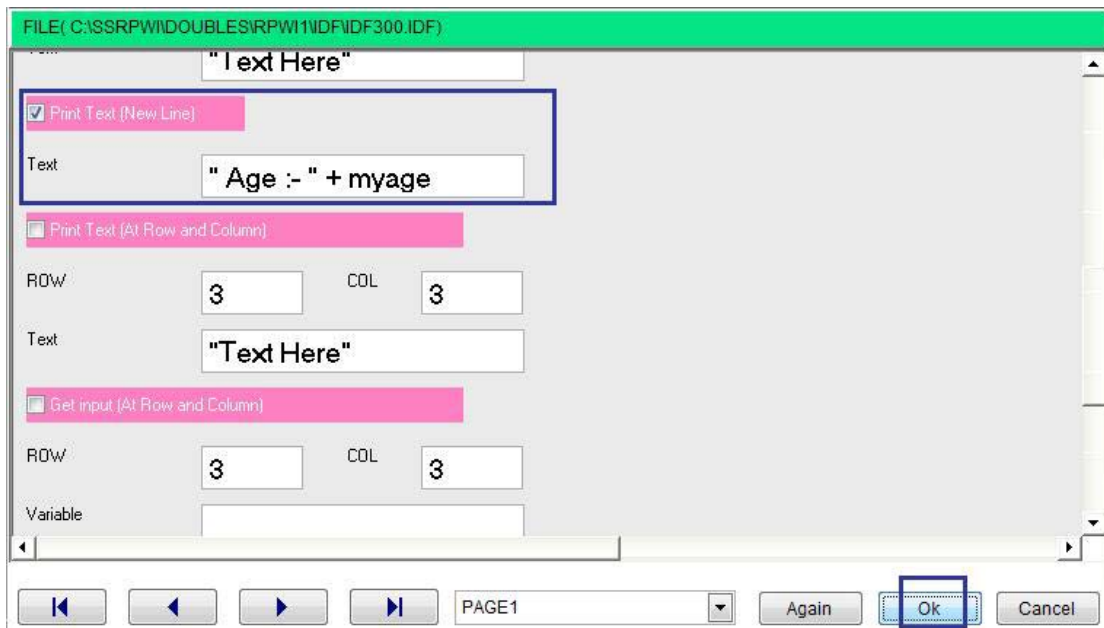Example - Screen shots:-

Domain (Variables) – Component (Assignment)

Interaction Page
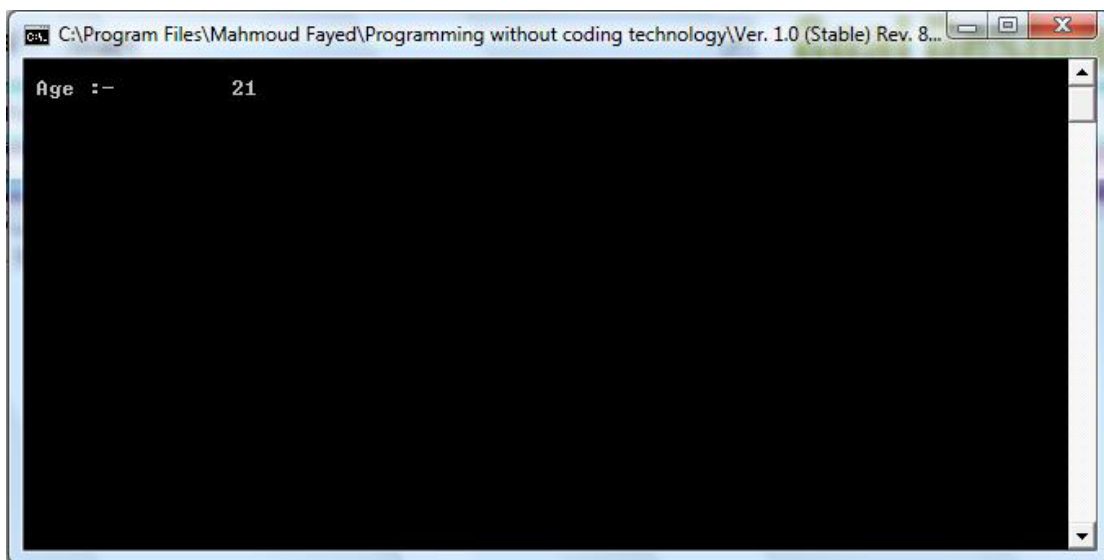
Component (Variables) – Component (Numeric to String)

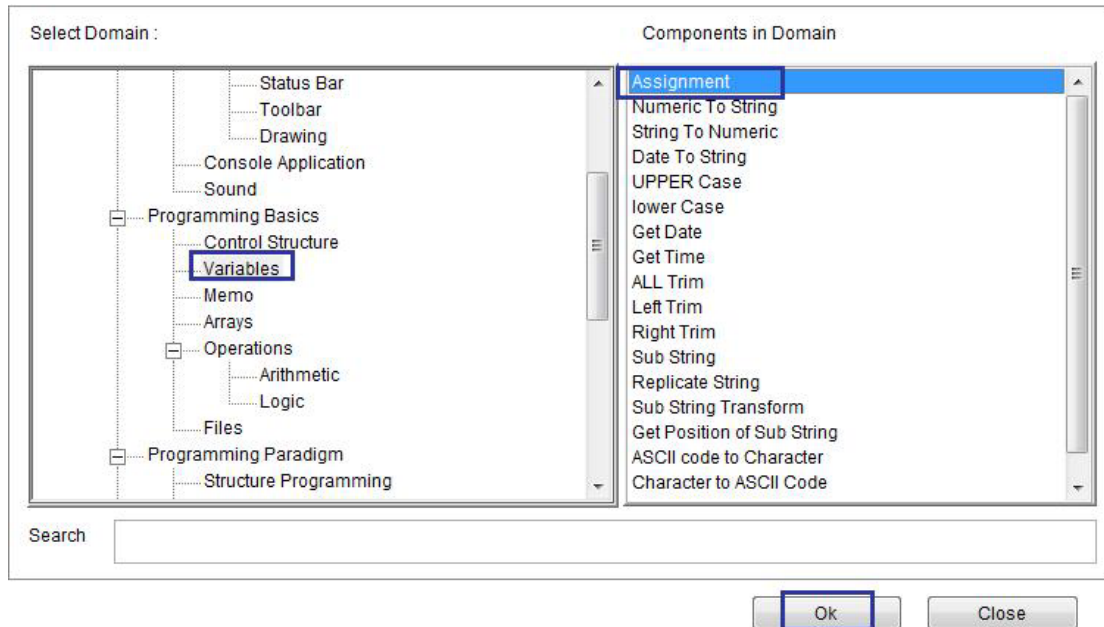Interaction Page

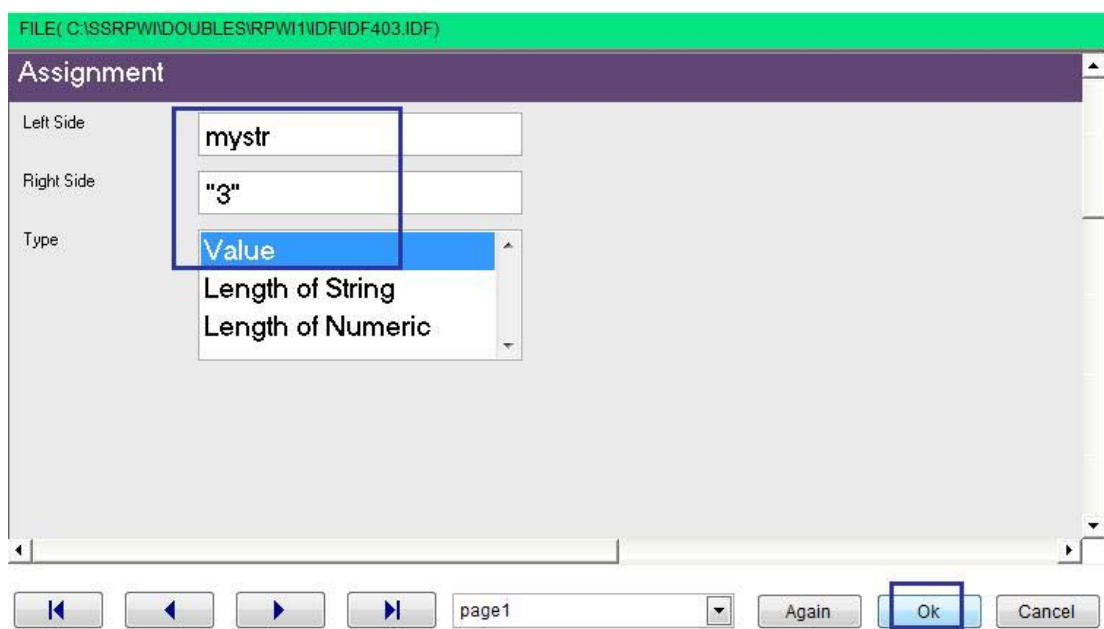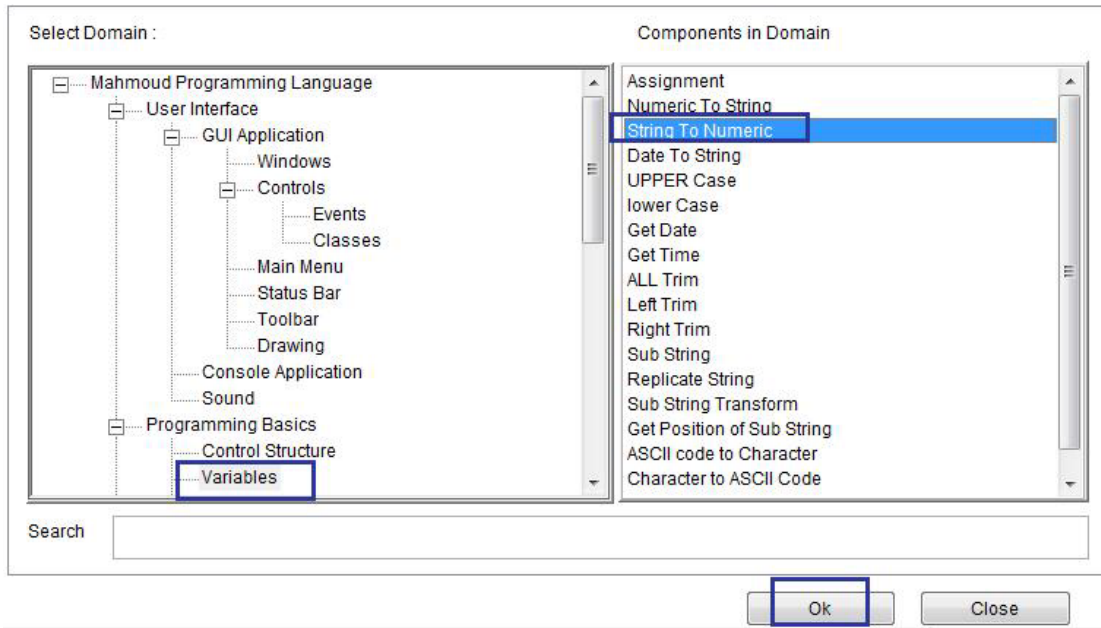Interaction Page

Final Steps Tree

The final application

String to Numeric

- Domain (Variables)
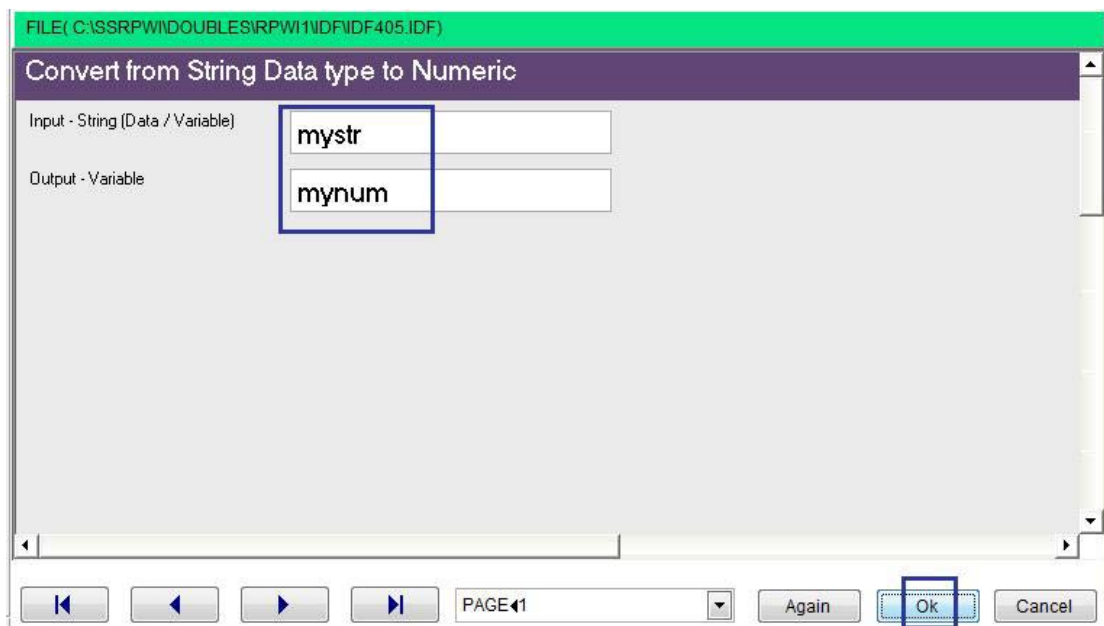- Component (String to Numeric)

Example - Screen shots:-
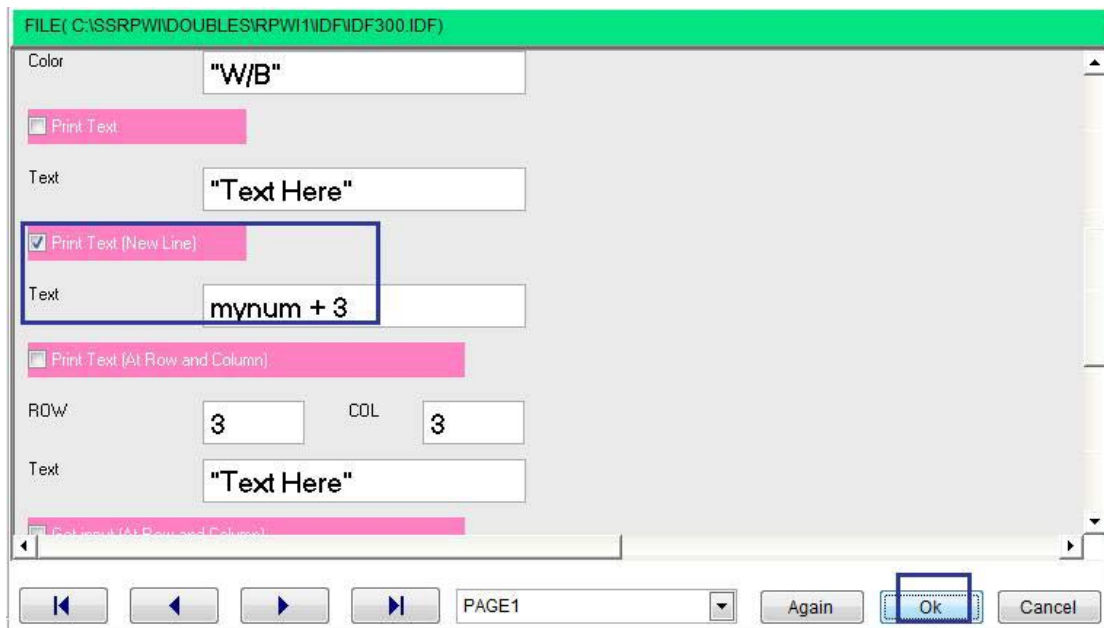

Domain (Variables) – Component (Assignment)

Interaction Page

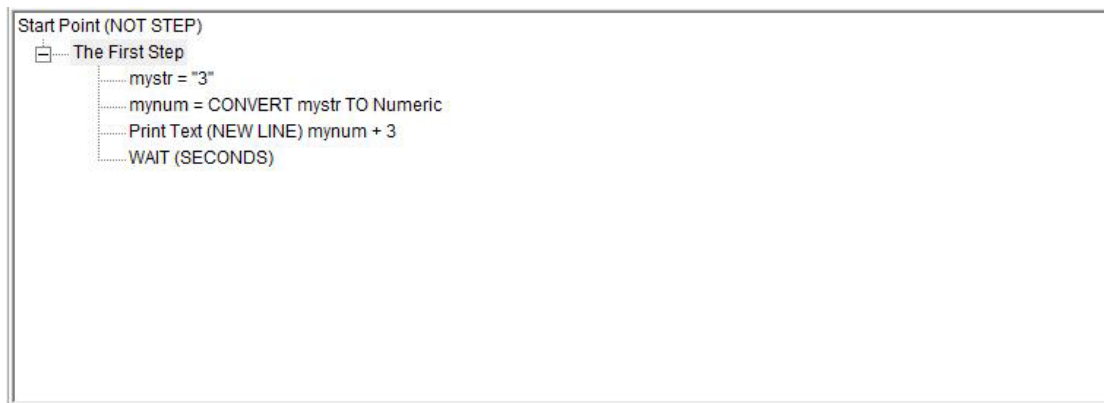Domain (Varibles) – Compoennt (String to Numeric)
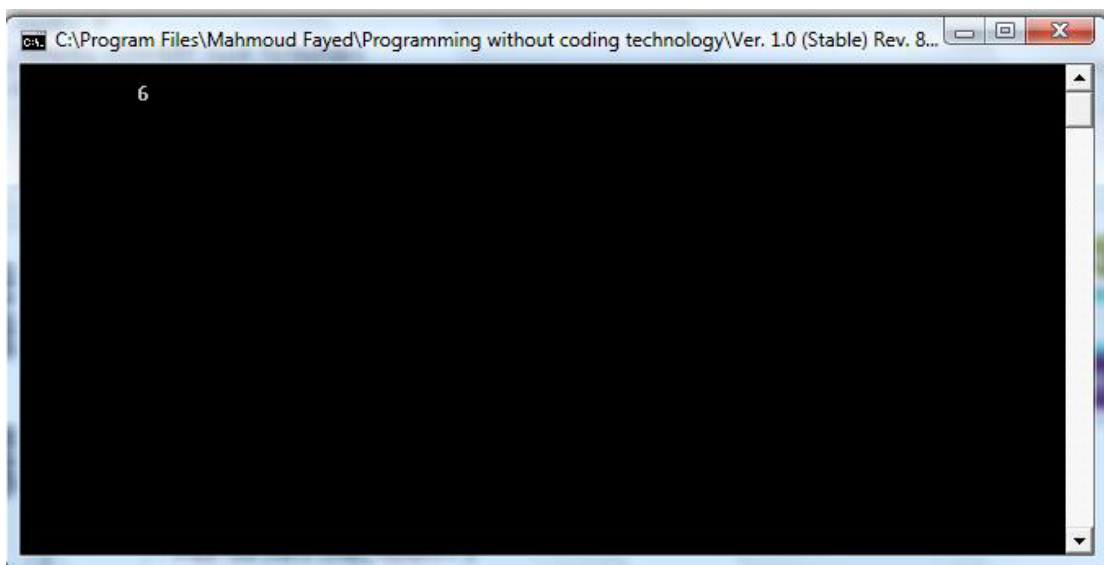

Interaction Page

Interaction Page
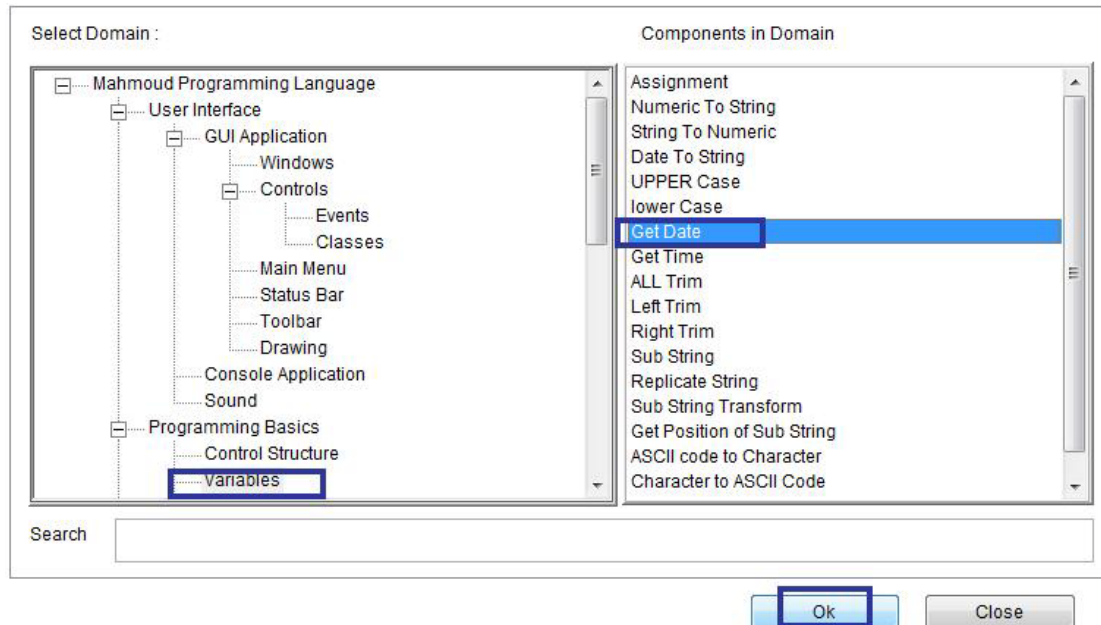
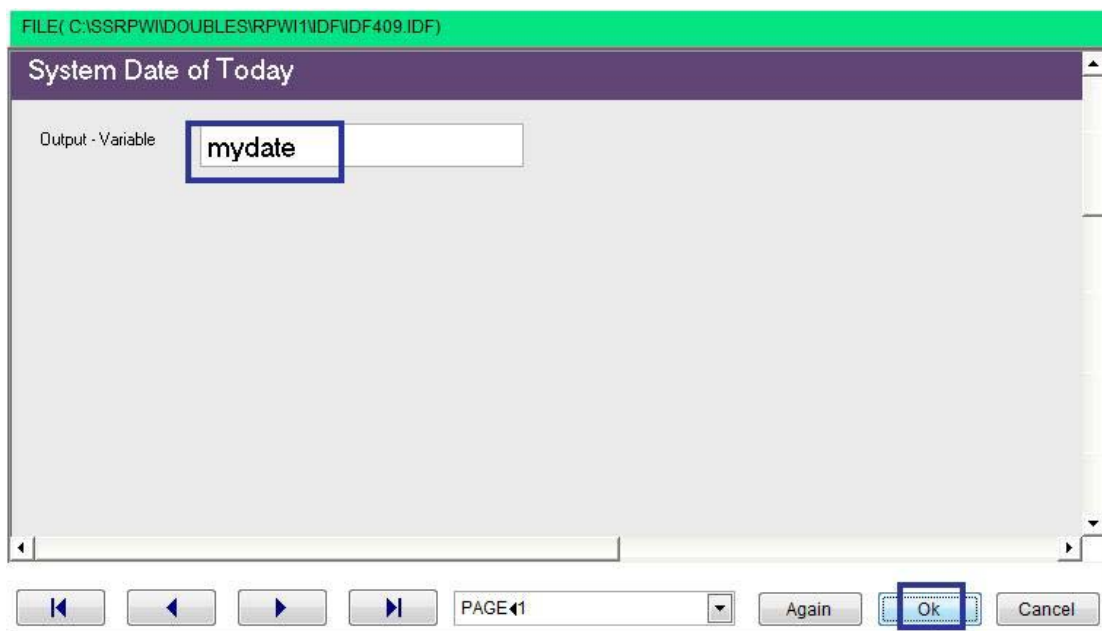

Final Steps Tree

The final steps

Date to String

- Domain (Variables)
- Component (Date to String)

Example - Screen shots:-

Domain (Variables) – Component (Get Date)

Interaction Page