UNIVERSITY OF ENGINEERING AND TECHNOLOGY, TAXILA



SOFTWARE ENGINEERING

LAB-11 SOLUTION

SUBMITTED TO: MS.SABA AWAN

SUBMITTED BY: MUHAMMAD ARSALAN

REG NO : <u>20-SE-56</u>

TASK-1

Write C++ Function named "Reverselt" in which use enter a number, program reverse it and display reversed number on the console as given by the output:

```
File Edit View Search Project Build Debug Forton widmith Tools Tools- Plugns DoxyBlocks Settings Help

File Edit View Search Project Build Debug Forton widmith Tools Tools- Plugns DoxyBlocks Settings Help

File Edit View Search Project Build Debug Forton widmith Tools Tools- Plugns DoxyBlocks Settings Help

File Edit View Search Plugns Dox
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CODE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 - o ×
                                                                                                                                                                                                                                                                                                                                                                                                 1  #include<iostream>
2  using namespace std;
3    //we declared a function named ReverseIt
4  int ReverseIt(int p);
                                                                                                                                                                                                                         int main()
                                                                                                                                                                                                                                                                                               "20-SE-56 MUHAMMAD ARSALAN "<<endl:
//declared and initialized two variables with 0 value
int num=0, out_put=0;
                                                                                                                                                                                                                                                                                                                         cout<<"PLEASE ENTER THE NUMBER YOU WANT TO REVERSE: ";
                                                                                                                                                                                                                                            // Passing value to main function form other function out put-Reverset(num);
cout<">cout<">cout<">cout<">cout<">cout<">cout<">cout
                                                                                                                                                                                                                                                  //defining the function
int ReverseIt(int p)
                                                                                                                                                                                                            PI
                                                                                                                                                                                                                                                int x=0, reverse=0;
                                                                                                                                                                                                                           while (p!=0)
                                                                                                                                                                                                                                                                                                        verse=(reverse*10)+x;
                                                                                                                                                                                                                                                return reverse;
                                                                                                                                                         Logs & others
                                                                                                                                                           P. Code:Blocks X Q. Search results X P. Cocc X Q. Build log X ♠ Build messages X P. Copcheck/Vers- Mes
                                                                                                                                                           Checking for emissance: C:\CodeBlocks\projects\20-EE-66 LAB 11 TANE\20-EE-66 LAB 11 TANE\20-E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Windows (CR+LF) WINDOWS-1252 Line 16, Col 51, Pos 535 Insert
        C:\CodeBlocks\projects\20-SE-56 LAB 11 TASK1\20-SE-56 LAB 11 TASK1.cpp
```

OUTPUT

TASK-2

Create a C++ Function named "ConvertBinaryToDecimal" that takes decimal number provided by user as input and perform its binary conversion to display the intermediate calculations with fila output as given below:

SOLUTION



OUTPUT

```
USER ENTER THE DECIMAL NUMBER:

Step 1: 35/2, Remainder : 1, Quotient : 17
Step 2: 17/2, Remainder : 0, Quotient : 8
Step 3: 8/2, Remainder : 0, Quotient : 2
Step 5: 2/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 1, Quotient : 0
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
Step 6: 1/2, Remainder : 0, Quotient : 1
St
```

TASK-3

Write a C++ Program to Find Fibonacci Numbers using Recursion up to the number of terms provided by User.

SOLUTION CODE

C:\CodeBlocks\projects\20-SE-56 LAB 11 TASK-3\20-SE-56 LAB 11 TASK-3.cpp

```
| Substitute | Sub
```

C/C++ Windows (CR+LF) WINDOWS-1252 Line 10, Col 25, Pos 337 Insert Read/Write default

OUTPUT

