UNIVERSITY OF ENGINEERING AND TECHNOLOGY, TAXILA



SOFTWARE ENGINEERING

ASSIGNMENT-1 SOLUTION

SUBMITTED TO: MS.SABA AWAN

SUBMITTED BY: MUHAMMAD ARSALAN

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

QUESTION

Illustrate a C++ program to develop a "SCIENTIFIC CALCULATOR". The program should include all the concepts related to switches, if-else constructs, and library functions, exceptional Cases/Invalid Choices. Output should be like given below:

SOLUTION

CODE:

#include <iostream></iostream>
#include <math.h></math.h>
#include <cmath></cmath>
#include <conio.h></conio.h>
#include <iomanip></iomanip>
using namespace std;
int main ()
{
//initialized an integer type variable to select operation user want to perform
int select_ope;
cout< <endl<< td=""></endl<<>
cout<<" WELCOME TO CALCULATOR BY 20-SE-56 MUHAMMAD ARSALAN"< <endl;< td=""></endl;<>
cout<<"";
cout<<"";
cout<<"+++++++++++++++++++++++++++++++++++
+++++++;;
cout<<"";
cout<<"";
cout< <endl;< td=""></endl;<>
//declared this statement so that after performing some operation programm will come to again this point by using 'goto'statement

```
start_programm:
   //provided the list of available operation that can be performed
    cout<<setw(10)<<" \t \t 1 : Arithmetic Operations "<<setw(10)<<endl;</pre>
   cout<<setw(10)<<" \t \t 2 : Trignometric Functions"<<setw(10)<<endl;</pre>
   cout<<setw(10)<<" \t \t 3 : Logarithmic Functions "<<setw(10)<<endl;</pre>
   cout<<setw(10)<<" \t \t 4 : Power Functions "<<setw(10)<<endl;</pre>
   cout<<setw(10)<<" \t \t 5 : Exit ... "<<setw(10)<<endl;
cout<<endl;
cout<<"\t \t SELECT OPERATION YOU WANT TO PERFORM "<<endl;</pre>
cout<<"\t === ";
   //user will select from any of above 5 possible choices
cin>>select_ope;
cout<<endl<<endl;
       if(select_ope==1)
       cout<<"<--USER CHOSED ARTHEMETIC OPERATION -->"<<endl;
       if(select_ope==2)
       cout<<"<--USER CHOSED TRIGNOMETRIC OPERATION-->"<<endl;
       if(select_ope==3)
       cout<<"<--USER CHOSED LOGARITHMIC OPERATION-->"<<endl;
       if(select_ope==4)
       cout<<"<--USER CHOSED POWER OPERATION"<<endl;</pre>
       if(select ope==5)
       cout<<"USER CHOSED TO CLOSE THE CALCULATOR GOOD BYE !!!!"<<endl;
cout<<" -----";
cout<<endl<<endl;
```

```
//switch statement to perform case study on any of selected operation from above
    switch(select_ope)
  {
      case 1:
        astart:
          //a character type data type to select which arthemetic operation to be performed
          char oper;
  double num1, num2;
  cout<<"CHOSE ARTHEMETIC OPERATION FROM THE FOLLOWING GIVEN '+','-','*','/' "<<endl;
  cout<< "SELECT OPERATION TO BE PERFORMED:";
  cout<<" \t---->:";
  cin>>oper;
             \t";
  cout<<"
  cout<<endl<<endl;
  cout<<"ENTER FIRST NUMBER : "<<endl;</pre>
  cout<<" \t---->:";
  cin>>num1;
  cout<<"ENTER SECOND NUMBER :"<<endl;</pre>
  cout<<" \t---->: ";
  cin>>num2;
  cout<<endl;
  switch(oper)
  {
  case '+':
```

```
"<<num1+num2<<endl;
   break;
 case '-':
   cout<<"Difference of numbers "<<num1<<" & "<<num2<<" : "<<endl<<" ANSWER : \n "<<num1-
num2<<endl;
   break;
 case '*':
   cout<<"Product of numbers "<<num1<<" & "<<num2<<" : "<<endl<<" ANSWER : \n
"<<num1*num2<<endl;
   break;
 case '/':
   cout<<"Answer of "<<num1<<" / "<<num2<<" : "<<endl<<" ANSWER : \n "<<num1/num2<<endl;
   break;
 case '/0':
      if (num2==0)
      {
      cout<<"\a"" Error : A NUMBER CAN'T BE DIVIDED BY 0 ."<<endl<<endl;
      }
   break;
 default:
     cout<<"MATH ERROR!INVALID ENTRY!!!!"<<endl;</pre>
    }
break;
case 2:
 int radian;
```

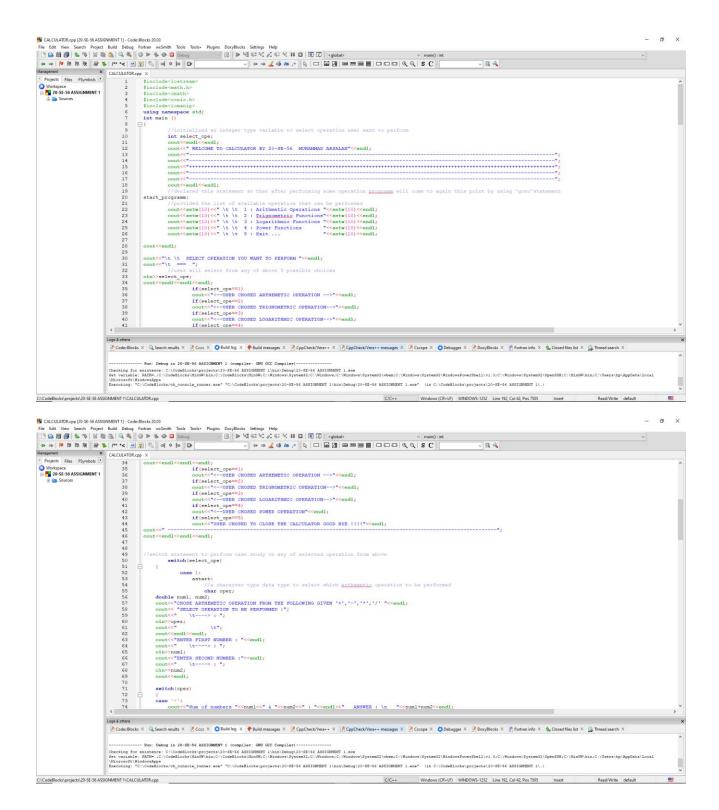
```
int trig_ope;
       cout << "\t > 1 : sin , \t > 2 : cos, \t > 3 : tan. "<< endl;
       cout<<"\t\t\ > 4 : cosec,\t> 5 : sec,\t> 6 : cot. "<<endl;
       cout<<endl;
       cout<<"PLEASE SELECT FROM ABOVE GIVEN TRIGNOMETRIC OPERATION !!"<<endl<<endl;
      cout<<" \t \t \t--->: ";
       cin>>trig_ope;
      switch (trig_ope)
{
       case 1:
             cout<<"\t \t NOTE : Enter the angle to be measured in Radian "<<" \t---> : ";
             cin>>radian;
             cout<<"\t \t You chose sine function "<<endl;</pre>
             cout<<" \t \t \t \t sine(radian) : "<<endl<<"\t \t \t ANSWER = "<<sin(radian)<<endl;
             break;
       case 2:
             cout<<"\t \t NOTE : Enter the angle to be measured in Radian "<<" \t---> : ";
             cin>>radian;
             cout<<"\t \t You chose COSECANT function "<<endl;</pre>
             cout <= 't t t t COS(radian) : '' <= radi<= '' t t t ANSWER = '' <= radian) <= radian' <= radian'
             break;
       case 3:
             cout<<"\t \t NOTE: Enter the angle to be measured in Radian "<<" \t--->: ";
             cin>>radian;
             cout<<"\t \t You chose TANGENT function "<<endl;</pre>
             cout<<" \t \t \t \t TAN(radian) : "<<endl<<"\t \t \t ANSWER = "<<tan(radian)<<endl;</pre>
```

```
break;
  case 4:
    cout<<"\t \t NOTE : Enter the angle to be measured in Radian "<<" \t---> : ";
    cin>>radian;
    cout<<"\t \t You chose COSECANT function "<<endl;</pre>
    cout <= 't t t t t COSEC(radian) : '' <= endl <= '' t t t t ANSWER = '' <= 1/sin(radian) <= endl;
    break;
  case 5:
    cout<<"\t \t NOTE: Enter the angle to be measured in Radian "<<" \t--->: ";
    cin>>radian;
    cout<<"\t \t \t You chose SECANT function "<<endl;</pre>
    cout <= 't t t t SEC(radian) : '' <= ndl <= '' t t t ANSWER = '' <= 1/cos(radian) <= ndl;
    break;
  case 6:
    cout<<"\t \t NOTE: Enter the angle to be measured in Radian "<<" \t--->: ";
    cin>>radian;
    cout<<"\t \t You chose COTANGENT function "<<endl;</pre>
    cout<<" \t \t \t \t \COT(radian) : "<<endl<<"\t \t \t \t ANSWER = "<<1/tan(radian)<<endl;
    break;
  default:
    cout<<"ERROR, INVALID ENTRY !!! ";
  }
break;
case 3:
  float num;
  cout<<endl<<endl;
```

```
cout<<" *****************************Enter a Positive Number to take the log of that number
cout<<" \t \t \t--->: ";
 cin>>num;
 cout<<endl<<endl<
 if (num>=0)
 {
   cout<<" \t \t \t \t log of "<<num<<" : " <<endl<<"\t \t \t \t ANSWER = " <<log(num)<<endl;
 }
 else
 {
    cout<<"MATH ERROR";
 }
cout<<endl<<endl;
cout<<" -----";
cout<<endl<<endl;
 break;
case 4:
 {
 int base_num, exp_num;
 cout<<"ENTER A NUMBER YOU WANT TO RAISE:"<<endl;
 cin>>base_num;
 cout<<endl;
 cout<<"ENTER EXPONENT YOU WANT TO RAISE THE BASE UPTO: "<<endl;
 cout<<"\t \t ";
```

```
cin>>exp_num;
  cout<<endl;
  cout<<base_num<<" raised to "<<exp_num<<" = "<<pow(base_num,exp_num);</pre>
  cout<<endl<<endl;
 }
 break;
case 5:
 int num5;
 //USER WANTED TO CLOSE THE CALCULATOR
  cout<<"SHUKRIA CALCULATOR USER KRNY KY LIAY EXIT K LIAY KOI BH KEY PRESS KRAIN.";
  cout<<endl<<endl;
  cout<<"\t \t ---> ";
  cin>>num5;
  cout<<endl;
  exit(0);
break;
case 6:
 //if user perform any other inout without these 5 cases than it will prompt error message
  if(trig_ope!=1)
   cout<<"ERROR INVALID INSERTION BY USER";
  else if(trig_ope!=2)
    cout<<"ERROR INVALID INSERTION BY USER";
  else if(trig_ope!=3)
    cout<<"ERROR INVALID INSERTION BY USER";
```

```
else if(trig_ope!=4)
  cout<<"ERROR INVALID INSERTION BY USER";
 else if(trig_ope!=5)
  cout<<"ERROR INVALID INSERTION BY USER";
 else
  cout<<"THANKS FOR USING CALCULATOR BY MUHAMMAD ARSALAN 20-SE-56";
break;
default:
 cout<<"CALCULATOR BY MUHAMMAD ARSALAN 20-SE-56"<<endl;
}}
cout<<endl<<endl<
cout<<" -----";
cout<<endl<<endl<
goto start_programm;
cout<<endl<<endl<<endl;
cout<<" -----";
cout<<endl<<endl;
 cout<<endl<<endl<<endl;
 return 0;
 }
```



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CALCULATOR.cpp [20-SE-56 ASSIGNMENT 1] - Code::Blocks 20.03
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                                                                                              conse'*:
    outce"gum of numbers "<<numl<<" & "<<numl<": "<<endl<<" ANSWER: \n "<<numl+num2<<endl)
break;

case '-!
    outc-"Difference of numbers "<<numl<<" & "<<numl<<": "<<endl<<" ANSWER: \n "<<numl-num2
break;

case '-!

 Workspace
20-SE-56 ASSIGNMENT 1
                                                                                                                       <"Difference of numbers "<<num1<<" & "<<num2<<" : "<<end1<<" ANSWER : \n "<<num1-num2<<end1;</pre>
                                                                                             case '+':
cout<<'
break;
case '/'
                                                                                                                       <"Product of numbers "<<num1<" & "<<num2<<" : "<<end1<<" ANSWER : \n "<<num1*num2<<end1;</pre>
                                                                                               case '/':
cout<<*nnswer of "<<num1<<" / "<<num2<<" : "<<end1<<" ANSWER : \n "<<num1/num2<<end1;
break;
case '/0':
    if (num2==0)</pre>
                                                                                                   out<<"\a"" Error : A NUMBER CAN'T BE DIVIDED BY 0 ."<<endl<<endl;
                                                                                              default:
                                                                                                                     cout << "MATH ERROR!INVALID ENTRY!!!!" << endl;
                                                                                      break;
case 2:
                                                                                               int radian ;
int trig_ope;
                                                                                               cout<<" \t \t \
cin>>trig_ope;
switch (trig_ope)
                                                                                              case i:   
cout<**\t \t \NOTE : Enter the angle to be measured in Radian "<<* \t----> : "; cin^*; radian;  
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                                                           break;
case 2:
                                                                                                       se 2:

oout<<"\t \t NOTE : Enter the angle to be measured in Radian "<<" \t----> : ";

cin>>radian;

oout<\" \t \t You chose COSECANT function "<<endl;

oout<\" \t \t \t COS(radian) : "<<endl<"\t \t \t \t \t ANSWER = "<<cos(radian) <<endl;

break;
                                                                                                         e 3:

out<<"t \ t \ t NOTE : Enter the angle to be measured in Radian "<<" \ t----> : ";

din>>radian;

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cout<<"\t \t \t NOTE: Enter the angle to be measured in Radian "<<" \t--->: ";
cin>>radian;
cout<<"\t \t \t You chose COSECANY function "<<endl;
cout<<" \t \t \t \t COSEC(radian): "<<endl<<"\t \t \t \t ANSWER = "<<1/>in(radian)</endl;
break;
                                                                                                         e 5: cout<<^*\t t \ t \ NOTE : Enter the angle to be measured in Radian "<<" \t---> : "; ohi>>radian;
                                                                                                                        radian;

<"\t \t \t You chose SECANT function "<<endl;

<" \t \t \t \t \SEC(radian) : "<<endl<<"\t \t \t \t ANSWER = "<<1/cos(radian)<<endl;
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C/C++ Windows (CR+LF) WINDOWS-1252 Line 192, Col 42, Pos 7505 Insert Read/Write default

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CALCULATOR.cpp [20-SE-56 ASSIGNMENT 1] - Code::Blocks 20.03
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20-SE-56 ASSIGNMENT 1
                                                                                                                                                                                                                        cout<<" \t \t \t \t log of "<<num<<" : " <<endl<<"\t \t \t \t \ANSWER = " <<log(num) <<endl;
                                                                                                                                                                                                                                                                         cout << "MATH ERROR";
                                                                                                                                                                                                                        break;
                                                                                                                                                                                                                  case 4:
                                                                                                                                                                                                                                  int base_num, exp_num;
cout<"ENTER A NUMBER YOU WANT TO RAISE:"<<endl;
cin>>base_num, exp_num;
cout<<endl;
cout<endl;
                                                                                                                                                                                                                                    cout<<base_num<<" raised to "<<exp_num<<" = "<<pow(base_num,exp_num);
cout<<endl<<endl<<endl</pre>
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//if user perform any other input without these 5 cases than it will prompt error message
if(trig.ope!=1)
coutc<*reserver.ope!=2)
coutc<*reserv
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OUTPUT CODES

HOME SCREEN



ARTHEMETIC OPERATIONS

ADDITION

SUBTRACTION

MULTIPLY

```
**C\CodeBlock\projects\20-SE-56 ASSIGNMENT 1\bin\Debug\20-SE-56 ASSIGNMENT 1.exe**

CHOSE ARTHEMETIC OPERATION FROM THE FOLLOWING GIVEN '+','-','*','/'

**SELECT OPERATION TO BE PERFORMED: ----> : *

ENTER FIRST NUMBER: ----> : 6

Product of numbers 3 & 6 :

ANSWER: 

1 **Arithmetic Operations 2 : Trignometric Functions 3 : Logarithmic Functions 4 : Power Functions 5 : Exit ...

**SELECT OPERATION YOU WANT TO PERFORM**
```

DIVISION

```
**C:\CodeBlocks\projects\20-SE-56 ASSIGNMENT 1\bin\Debug\20-SE-56 ASSIGNMENT 1.exe*

CHOSE ARTHEMETIC OPERATION FROM THE FOLLOWING GIVEN '+','-','*','/'

**SELECT OPERATION TO BE PERFORMED: ---->: /

ENTER FIRST NUMBER: ---->: 11

Answer of 33 / 11:

Answer of 33 / 11:

ANswer: 3

**Inswer of 33 / 11:

Answer of 33 / 12:

**ANswer of 33 / 12:

**ANswer of 33 / 13:

**ANsw
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TRIGNOMETRIC OPERATIONS

```
"C:\CodeBlocks\projects\20-SE-56 ASSIGNMENT 1\bin\Debug\20-SE-56 ASSIGNMENT 1.exe"
                                                                                                                                                   ×
                       1 : Arithmetic Operations
                       2 : Trignometric Functions
3 : Logarithmic Functions
                       4 : Power Functions
5 : Exit ...
                       SELECT OPERATION YOU WANT TO PERFORM
 --USER CHOSED TRIGNOMETRIC OPERATION-->
                                 > 1 : sin , > 2 : cos,
> 4 : cosec, > 5 : sec,
                                                                    > 3 : tan.
> 6 : cot.
PLEASE SELECT FROM ABOVE GIVEN TRIGNOMETRIC OPERATION !!
 "C:\CodeBlocks\projects\20-SE-56 ASSIGNMENT 1\bin\Debug\20-SE-56 ASSIGNMENT 1.exe"
                                                                                                                                                   П
                                                                                                                                                           Х
 --USER CHOSED TRIGNOMETRIC OPERATION-->
                                 > 1 : sin , > 2 : cos,
> 4 : cosec, > 5 : sec,
PLEASE SELECT FROM ABOVE GIVEN TRIGNOMETRIC OPERATION !!
                               ---->: 1

NOTE: Enter the angle to be measured in Radian ---->: 60

You chose sine function

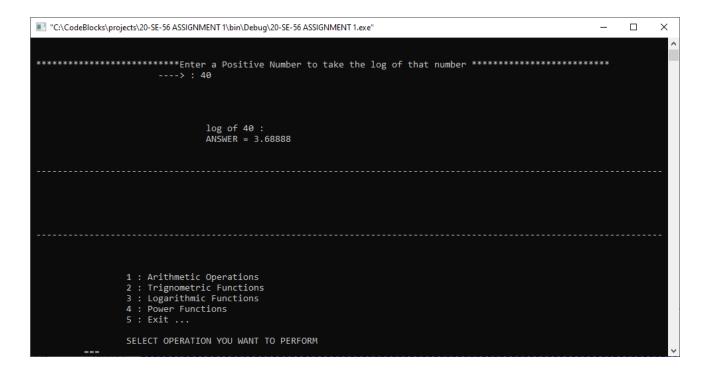
sine(radian):

ANSWER = -0.304811
```

LOGARITHMIC OPERATIONS

1 : Arithmetic Operations
2 : Trignometric Functions
3 : Logarithmic Functions
4 : Power Functions
5 : Exit ...

SELECT OPERATION YOU WANT TO PERFORM



POWER FUNCTION



CLOSE THE CALCULATOR

```
■ "C:\CodeBlocks\projects\20-SE-56 ASSIGNMENT 1\bin\Debug\20-SE-56 ASSIGNMENT 1.exe"

20 raised to 3 = 8000

1 : Arithmetic Operations
2 : Trignometric Functions
3 : Logarithmic Functions
4 : Power Functions
5 : Exit ...

SELECT OPERATION YOU WANT TO PERFORM

=== 5

USER CHOSED TO CLOSE THE CALCULATOR GOOD BYE !!!!

SHUKRIA CALCULATOR USER KRNY KY LIAY EXIT K LIAY KOI BH KEY PRESS KRAIN.

--->
```