UNIVERSITY OF ENGINEERING AND TECHNOLOGY,TAXILA

SOFTWARE ENGINEERING

LAB 3 SOLUTION

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TASK-1

- Create a C++ Program to Generate the Following Output.

SOLUTION


```cpp
#include <iostream>
using namespace std;

int main(){
cout <<"Taking Input From User....\n"<<endl;
int num1;
int num2;

cout<<"Enter 1st Number:";
cin>>num1;
cout<<"Enter 2nd Number:";
cin>>num2;

cout<<endl<<endl;
cout<<" Displaying Output ON the Screen...."<<endl<<endl;
cout<<"1st Number="<<num1<<endl;
cout<<"2nd Number="<<num2<<endl;
return 0;

}
```



```
Taking Input From User....

Enter 1st Number:10
Enter 2nd Number:20


 Displaying Output ON the Screen....

1st Number=10
2nd Number=20

Process returned 0 (0x0)    execution time : 21.192 s
Press any key to continue.
```

TASK-2

Write a C++ program that

- takes length, width of a rectangle of specific data type from user as input
- to calculate perimeter and area of rectangle.
- display the results.

SOLUTION


```cpp
#include <iostream>
using namespace std;

int main(){

    float lengthh;
    float width;
    float peri;
    float area;

    cout<<"Enter Length Of Rectangle:";
    cin>>lengthh;
    cout<<endl;
    cout<<"Enter Width Of Rectangle:";
    cin>>width;
    cout<<endl;
    peri=2*(lengthh+width);
    cout<<"Perimeter Of Rectangle:"<<peri<<endl<<endl;
    area=lengthh*width;
    cout<<"Area Of Rectangle:"<<area<<endl;
    return 0;
```
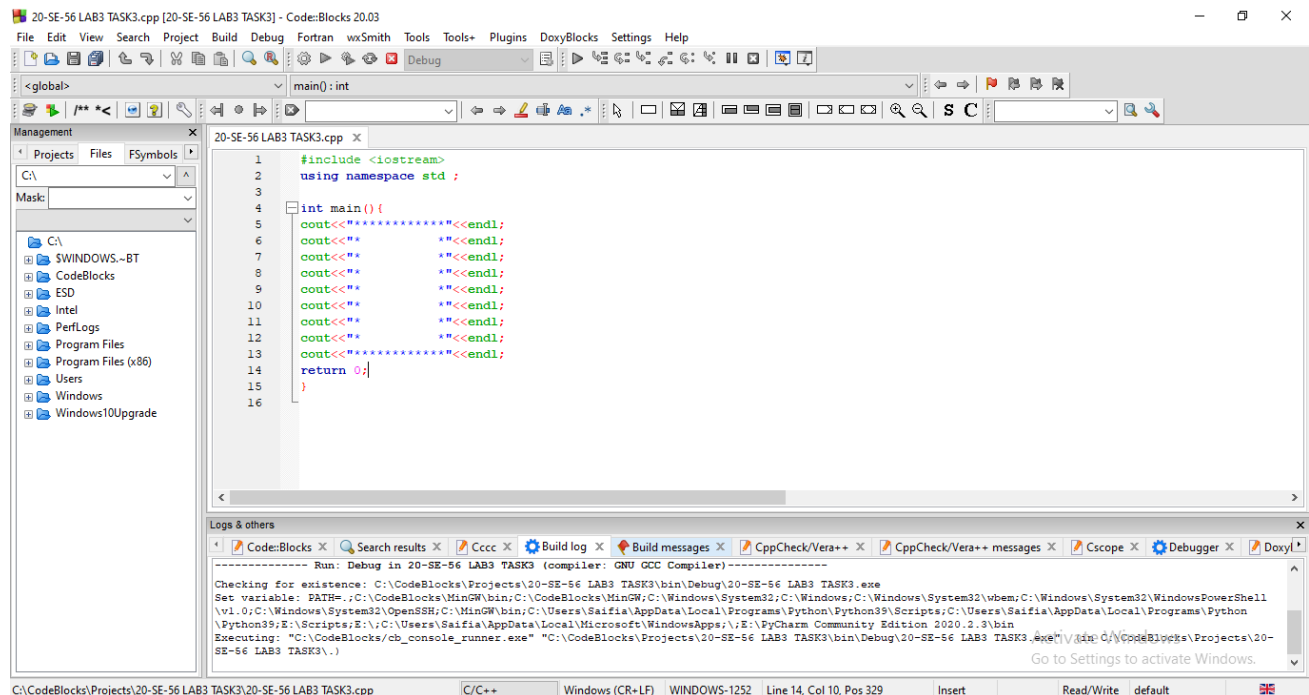


```
Enter Length Of Rectangle:2.6

Enter Width Of Rectangle:4.9

Perimeter Of Rectangle:15

Area Of Rectangle:12.74

Process returned 0 (0x0)    execution time : 26.611 s
Press any key to continue.
```

TASK-3

Use concepts as already taught in the class and produce output as follows.

SOLUTION


```cpp
#include <iostream>
using namespace std ;

int main(){
    cout<<"************"<<endl;
    cout<<"*          *"<<endl;
    cout<<"*          *"<<endl;
    cout<<"*          *"<<endl;
    cout<<"*          *"<<endl;
    cout<<"*          *"<<endl;
    cout<<"*          *"<<endl;
    cout<<"*          *"<<endl;
    cout<<"************"<<endl;
    return 0;
}
```



```
************
*          *
*          *
*          *
*          *
*          *
*          *
*          *
************

Process returned 0 (0x0)   execution time : 0.094 s
Press any key to continue.
```