

Lab#01
Object oriented Programming
18/10/2022

Sample:

Program to check whether an integer is positive or negative. This program considers 0 as a positive number.

```
#include <iostream>

using namespace std;

int main() {

    int number;

    cout << "Enter an integer: ";
    cin >> number;

    if (number >= 0) {
        cout << "You entered a positive integer: " << number << endl;
    }
    else {
        cout << "You entered a negative integer: " << number << endl;
    }

    cout << "This line is always printed.";

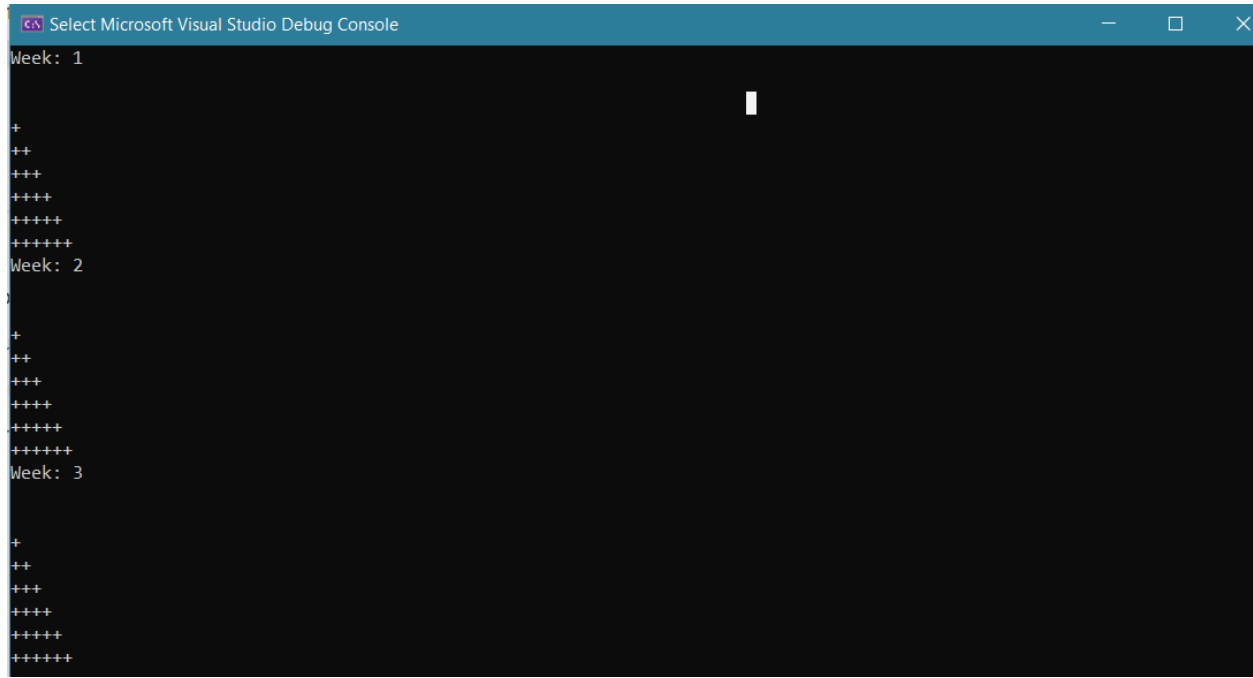
    return 0;
}
```

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Task# 01

C++ program to display 7 days of 3 weeks in the form of asterisks.
I.e. For first day of week only one asterisks, for second day two
asterisks.

Output



```
Select Microsoft Visual Studio Debug Console
Week: 1
+
++
+++
++++
+++++
++++++
Week: 2
+
++
+++
++++
+++++
++++++
Week: 3
+
++
+++
++++
+++++
++++++
```

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Task# 02

Displaying following pattern.

Output

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

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Task# 03

Program that Prints only even days of week for 3 week.

Output

```
Week: 1
  Day:2
  Day:4
  Day:6
Week: 2
  Day:2
  Day:4
  Day:6
Week: 3
  Day:2
  Day:4
  Day:6
```

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Task# 04

Create a Calculator using the switch Statement that has the following characteristics:

1. Input two numbers from the user.
2. Have 4 operators addition, subtraction, multiplication, division.

Output

```
Enter an operator (+, -, *, /): +  
Enter two numbers:  
2.3  
4.5  
2.3 + 4.5 = 6.8
```

Output 2

```
Enter an operator (+, -, *, /): -  
Enter two numbers:  
2.3  
4.5  
2.3 - 4.5 = -2.2
```

Output 3

```
Enter an operator (+, -, *, /): *  
Enter two numbers:  
2.3  
4.5  
2.3 * 4.5 = 10.35
```

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Task# 05

Program that display Numbers from 1 to 5.

Output

1 2 3 4 5

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Task# 06

Program that takes input from user and adds them up. When a user enters a negative number it displays the result by adding positive numbers.

Output

```
Enter a number: 6  
Enter a number: 12  
Enter a number: 7  
Enter a number: 0  
Enter a number: -2
```

```
The sum is 25
```

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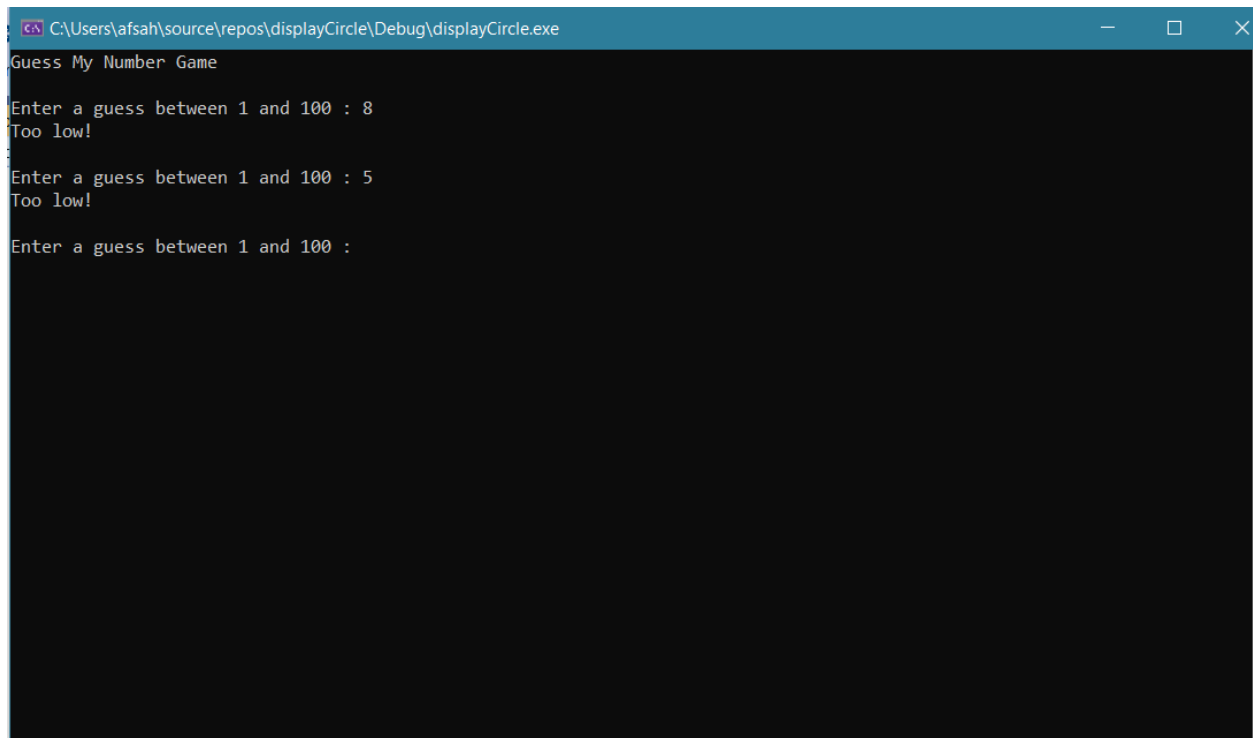
Task# 07

Write a C++ program to implement a game in which you have to guess a number randomly generated by computer. It must have following properties:

1. User enters a number and the game tells if the number is too high or low.
2. Appericates players if guessed correctly.
3. You can only make 3 attempts.

```
#include<cstdlib>
#include<ctime>
```

```
Srand(time(0));
Num=rand()%100+1;
```



```
C:\Users\afsaah\source\repos\displayCircle\Debug\displayCircle.exe
Guess My Number Game
Enter a guess between 1 and 100 : 8
Too low!
Enter a guess between 1 and 100 : 5
Too low!
Enter a guess between 1 and 100 :
```


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Task#08

Program that takes input from the user about the number of required rows in pyramid and then print numbers in pyramid format.

Output

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```