

AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)
 Faculty of Science and Technology (FST)
 Department of Computer Science (CS)
 Object Oriented Programming 2
 Practice Problems

1. Write a program to print all even numbers from 1 to n using for loop.
2. Write a program to print the following pattern using loop.

```
X0X0X0
0X0X0X
X0X0X0
0X0X0X
```

3. Write a program to print the given number pattern using loop.

```
12345
23456
34567
45678
56789
```

4. Write a program to print the sum of odd and even numbers starting from 1 to 100.
5. Write a program to print the given number pattern using loop.

```
1
 2
  3
   4
    5
```

6. Write a program to find out factorial of a number. Example factorial of 5 is 1*2*3*4*5
7. Print the pattern below.

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

8. Write a program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer, calculate percentage and grade according to given conditions.

Hint: Mark greater than or equal 90: Grade A+

Mark between 85 and 89: Grade A

Mark between 80 and 85: Grade B+

Mark between 75 and 79: Grade B

Mark between 50 and 75: Grade C+

Mark less than 50: Grade F

