

Fundamentals of Programming Assignment 03

1. Write C++ code which takes two numbers a and b as an input from the user and do the following with the help of for loop:
 - a. If the value is between 1-9, it prints the description of value in text, like for 1 it prints "one", for two it prints "two."
 - b. If the value is above nine, and it is even, then "Even" is displayed on the console.
 - c. If the value is above nine and it is odd, then "Odd" is displayed on the console.
2. Write a program that generates the first 20 numbers of the Fibonacci sequence using a for loop.
3. Print the following hollow star pattern using a for loop:

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

4. Print the following pyramid star pattern using C++ for Loop:

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

5. Print the following Diamond Star pattern using C++ for Loop:

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

6. Write C++ code to print plus pattern using for Loops:

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

7. Write C++ code to find out the prime numbers in a given range of numbers.
8. Write down C++ code to swap two numbers, without using third numbers.