NIT-J CSED
Computer Programming Lab
Lab 2: LOOPS

1. WAP to accept a number and print all its digits in words using *Switch and loop* statement.
(**Hint:** Input: 149, Output: *One Four Nine*)

2. WAP to print Fibonacci series up to 'n' terms where n is entered from user.

3 WAP to check whether the entered integer number is palindrome or not.

4 WAP to check whether a given number is prime or not. Also print all prime numbers between 1 to n where n is entered from user.

5. a) WAP to print the following pyramids using numbers

```
        1
      2 3 2
    3 4 5 4 3
  4 5 6 7 6 5 4
5 6 7 8 9 8 7 6 5
```

b) WAP to print the following pascal's triangle using numbers.

```
          1
        1   1
      1   2   1
    1   3   3   1
  1   4   6   4   1
1   5   10  10  5   1
```

c) WAP to print the following Floyd's triangle using numbers.

```
1
2 3
4 5 6
7 8 9 10
```

6. WAP that reads 10 different numbers and compute the sum of all *odd* and *even* numbers separately. Use *for* loop, *while* loop and *do-while* loop each separately for this program.
7. WAP to find the binary equivalent of an integer number entered from user also count the number of 1's and number of 0's in the resultant binary number.
8. Write programs to print following patterns-

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

```
        0
      1 0 1
    2 1 0 1 2
  3 2 1 0 1 2 3
```

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

```
1
232
34543
4567654
```

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