

Lab Sheet 1

1. Write a simple Fibonacci series program without using recursion

Note: Have a variable *count* in the program which is initialised to say 10.

Output should be

0 1 1 2 3 5 8 13 21 24

Change the values of *count* in the program and test the program

2. Write a Simple program to check the number is prime

Note : have a variable *num* = 3

Output should be

3 is a prime number

Change the value of *num* = 4

Output should be

4 is not a prime number

Change the values of *num* in the program and test the program

3. Write a Simple program to find the factorial of a number

Note : have a variable *n* = 5

Output should be

Factorial of 5 is : 120

Change the values of *n* in the program and test the program

4. Print the following patterns

a)

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

b)

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

c)

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

d)

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

5. Write a program to Reverse a Number in Java

Note : have a variable $n = 12345$

Output should be

54321

Change the values of n in the program and test the program

