1. Write a program to take command line input and check if the number is odd or even.

```
V:\SEM - 4\JAVA\21BCA69>javac evenodd.java
V:\SEM - 4\JAVA\21BCA69>java evenodd
Enter a Number :
7
7 is Odd Number
V:\SEM - 4\JAVA\21BCA69>_
```

2. Write a program to take input and sum of 2 Numbers.

```
CODE :-
import java.util.*;
class Add
{
    public static void main(String args[])
    {
        int no1,no2,sum;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter First Number :");
        no1=s.nextInt();
        System.out.println("Enter Second Number :");
        no2=s.nextInt();
        sum=no1+no2;
        System.out.println("Sum of Two Number is :"+sum);
    }
}
```

```
V:\SEM - 4\JAVA\21BCA69>javac Add.java

V:\SEM - 4\JAVA\21BCA69>java Add

Enter First Number :

10

Enter Second Number :

20

Sum of Two Number is :30

V:\SEM - 4\JAVA\21BCA69>
```

3. Write a program to take input and calculate a Simple Interest. CODE:-

```
import java.util.*;
class simpleintrest
{
    public static void main(String args[])
    {
        float P, R, T,SI;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter The Principal :");
        P=s.nextFloat();
        System.out.println("Enter The Rate of Interest :");
        R=s.nextFloat();
        System.out.println("Enter The Time of Period :");
        T=s.nextFloat();
        System.out.println("Simple Interest = " + SI);
    }
}
```

```
V:\SEM - 4\JAVA\21BCA69>javac simpleintrest.java
V:\SEM - 4\JAVA\21BCA69>java simpleintrest
Enter The Principal :
5000
Enter The Rate of Intrest :
2
Enter The Time of Period :
3
Simple Interest = 300.0
V:\SEM - 4\JAVA\21BCA69>
```

4. Write a Program to take input and Check Number is Positive or Negative.

```
CODE:-
```

```
V:\SEM - 4\JAVA\21BCA69>javac PosorNeg.java
V:\SEM - 4\JAVA\21BCA69>java PosorNeg
Enter The Number :
-22
The Number is Negative.
V:\SEM - 4\JAVA\21BCA69>_
```

5. Write a Program to take input and Check Year is Leap Year or Not.

```
import java.util.*;
class leapyear
```

CODE:-

```
public static void main(String[] args)
{
  int year;
  Scanner scan = new Scanner(System.in);
  System.out.print("Enter The Year: ");
  year = scan.nextInt();
  if(year%4==0 && year%100!=0)
  System.out.println("It is a Leap Year.");
  else if(year%400==0)
  System.out.println("It is a Leap Year.");
  else
  System.out.println("It is Not a Leap Year.");
}
```

```
V:\SEM - 4\JAVA\21BCA69>javac leapyear.java
V:\SEM - 4\JAVA\21BCA69>java leapyear
Enter The Year: 2024
It is a Leap Year.
V:\SEM - 4\JAVA\21BCA69>_
```

6. Write a program to take input and find the Character Is Vowel or Not.

```
V:\SEM - 4\JAVA\21BCA69>javac Vowel.java

V:\SEM - 4\JAVA\21BCA69>java Vowel

Enter Any Alphabet : b

It is a Consonant.

V:\SEM - 4\JAVA\21BCA69>java Vowel

Enter Any Alphabet : i

It is a Vowel.

V:\SEM - 4\JAVA\21BCA69>_
```

7. Write a program to reverse a given number using while loop.

```
CODE :-
import java.util.*;
class Reversewhile
{
    public static void main(String args[])
    {
        int a,i;
        Scanner n=new Scanner(System.in);
        System.out.println("Enter a Number :-");
        a=n.nextInt();
        i=a;
        while(i != 0)
        {
            System.out.println(i);
            i--;
        }
    }
}
OUTPUT :-
```

```
V:\SEM - 4\JAVA\21BCA69>javac Reversewhile.java
V:\SEM - 4\JAVA\21BCA69>java Reversewhile
Enter a Number :-
7
6
5
4
3
2
```

8. Write a program to reverse a given number using for loop.

```
CODE :-
import java.util.*;
class Reversefor
{
    public static void main(String args[])
    {
        int a;
        Scanner n=new Scanner(System.in);
        System.out.println("Enter Any Number :-");
        a=n.nextInt();
        for(int i=a;i !=0;i--)
        {
             System.out.println(i);
        }
     }
}
```

```
V:\SEM - 4\JAVA\21BCA69>javac Reversefor.java
V:\SEM - 4\JAVA\21BCA69>java Reversefor
Enter Any Number :-
7
6
5
4
3
2
```

9. Write a program to check if the number is Armstrong or Not.

```
CODE:-
import java.util.*;
class Armstrong
      public static void main(String[] args)
             int n1, n0, a, total = 0;
             Scanner n=new Scanner(System.in);
             System.out.println("Enter a Number :-");
             n1=n.nextInt();
             no = n1;
             while (no != 0)
                           a = no \% 10;
                           total = total + a*a*a;
                           no /= 10;
             if(total == n1)
                           System.out.println(n1 + " is an Armstrong Number");
              else
                     System.out.println(n1 + " is Not an Armstrong Number");
      }
}
```

```
V:\SEM - 4\JAVA\21BCA69>javac Armstrong.java
V:\SEM - 4\JAVA\21BCA69>java Armstrong
Enter a Number :-
153
153 is an Armstrong Number
```

10. Write a to Check Number is Prime Number or not.

```
CODE:-
import java.util.*;
class Prime
      public static void main(String args[])
             int a,i,c=0;
             Scanner n=new Scanner(System.in);
             System.out.println("Enter a Number :-");
             a=n.nextInt();
             for(i=2;i<=a/2;i++)
                    if(a\%i==0)
                           c=1;
                           break;
             if(c==0)
             System.out.println(a+ " Number is Prime Number.");
             System.out.println(a + " Number is Not Prime Number.");
      }
}
```

```
V:\SEM - 4\JAVA\21BCA69>javac Prime.java
V:\SEM - 4\JAVA\21BCA69>java Prime
Enter a Number :-
5
5 Number is Prime Number.
V:\SEM - 4\JAVA\21BCA69>java Prime
Enter a Number :-
8
8 Number is Not Prime Number.
```

11. Write a program to Check given string is Palindrome or not.

```
CODE:-
import java.util.*;
class Palindrome
      public static void main(String[] args)
      int num, rev=0, rem, temp;
      Scanner scan = new Scanner(System.in);
      System.out.print("Enter a Number : ");
      num = scan.nextInt();
      temp = num;
      while(temp!=0)
             rem = temp\%10;
             rev = (rev*10) + rem;
             temp = temp/10;
      }
      if(num==rev)
             System.out.println("It is a Palindrome Number.");
      else
             System.out.println("It is not a Palindrome Number.");
      }
}
```

```
V:\SEM - 4\JAVA\21BCA69>javac Palindrome.java
V:\SEM - 4\JAVA\21BCA69>java Palindrome
Enter a Number : 121
It is a Palindrome Number.
```

12. Write a program in java to display the pattern like a right angle triangle using an asterisk.

```
V:\SEM - 4\JAVA\21BCA69>javac Star.java
V:\SEM - 4\JAVA\21BCA69>java Star
*
* *
* *
* * *
* * *
* * * *
```

13. Write a program in java to make such a pattern like a pyramid with numbers increased by 1.

```
V:\SEM - 4\JAVA\21BCA69>javac Numpattern.java
V:\SEM - 4\JAVA\21BCA69>java Numpattern
    1
    2 3
    4 5 6
    7 8 9 10
11 12 13 14 15
```

14. Write a C Program to display the pattern using the alphabet.

```
V:\SEM - 4\JAVA\21BCA69>javac patternalpha.java
V:\SEM - 4\JAVA\21BCA69>java patternalpha
A B C D E F
A B C D E
A B C D
A B C
A B C
```

15. Write a program to take command line input and print factorial of given number.

```
CODE :-
import java.util.*;
class Factorial
{
    public static void main(String args[])
    {
        int i,fact=1,no;
        Scanner n=new Scanner(System.in);
        System.out.println("Enter The Number :");
        no=n.nextInt();
        for(i=1;i<=no;i++)
        {
            fact=fact*i;
        }
        System.out.println("Factorial of "+no+" is: "+fact);
        }
}</pre>
```

```
V:\SEM - 4\JAVA\21BCA69>javac Factorial.java
V:\SEM - 4\JAVA\21BCA69>java Factorial
Enter The Number :
5
Factorial of 5 is: 120
```

16. Write a program to display Fibonacci series.

```
CODE:-
import java.util.*;
class Fibonacci
public static void main(String args[])
      int a=0,b=1,c,i=3,no;
      Scanner s=new Scanner(System.in);
      System.out.println("Enter The Number :");
      no=s.nextInt();
      System.out.print(a+" "+b);
      while(i<=no)
             c=a+b;
             System.out.println(""+c);
             a=b;
             b=c;
             i++;
      }
}
```