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

#### 2)Write a program to take command line input and sum of 2 number.

```
import java.util.Scanner;
class add {
    public static void main(String args[])
    {
        int a,b,c;
        Scanner s=new Scanner(System.in);
System.out.println("Enter First number:");
        a=s.nextInt();
        System.out.println("Enter Secoend number:");
        b=s.nextInt();
        c=a+b;
        System.out.println("The sum of 2 digit is:"+c);
    }
}
```

```
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C:\Users\21bca53>set parth=C:\Program Files (x86)\Java\jdk1.8.0_161\bin

C:\Users\21bca53>v:

v:\cd java j1

V:\java j1>java add
Enter First number:
669
Enter Secoend number:
57
The sum of 2 digit is:726

V:\java j1>____
```

#### 3)Write a program to take command line input and calculate a Simple Interest

```
import java.util.Scanner; class
simpleinterest2
{
    public static void main(String args[])
    {
        int p,r,n,a;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter value of principal Amount:");
        p=s.nextInt();
        System.out.println("Enter value of rate:");
        r=s.nextInt();
        System.out.println("Enter value of number of month:");
        n=s.nextInt();
        a=(p*r*n)/100;
        System.out.println("The simpleinterest2 is:"+a);
    }
}
```

```
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C:\Users\21bca53>set parth=C:\Program Files (x86)\Java\jdk1.8.0_161\bin

C:\Users\21bca53>v:

V:\cd java j1

V:\java j1>java simpleinterest2.java

V:\java j1>java simpleinterest2
Enter value of principal Amount:
54
Enter value of rate:
5654
Enter value of number of month:
5654
The simpleinterest2 is:17262566

V:\java j1>
```

# 4)Write a Program to take command line input and Check Number is Positive or Negative

```
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C:\Users\21bca53>set parth=C:\Program Files (x86)\Java\jdk1.8.0_161\bin

C:\Users\21bca53>v:

V:\para j1>javac positive.java

V:\java j1>java positive
enter any number:
84
84 is Positive Number.

V:\java j1>

V:\java j1>

V:\java j1>
```

# 5)Write a Program to take command line input and Check Year is Leap Year or Not

import java.util.Scanner; class leapyear

## 6)Write a program to take command line input and find the Character Is Vowel or Not

```
import java.util.Scanner; class
vowel
{
  public static void main(String args[])
```

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

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

```
import java.util.Scanner; class
forreverse
{
    public static void main(String args[])
    {
        int a,r,c=0,b,i;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter any Number:");
        b=a;
        for(i=0;a>0;i++)
```

#### 9) Write a program to check number is Armstrong or Not

```
Strict Windows (Version 10.0.19043.1165)

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C:\Users\21bca53>set parth=C:\Program Files (x86)\Java\jdk1.8.0_161\bin

C:\Users\21bca53>v:

V:\>cd java j1

V:\java j1>java carmstrong.java

V:\java j1java armstrong
Enter any number:
5454
5454 is not Armstrong

V:\java j1>

V:\java j1>
```

#### 10) Write a to check number is Prime number or not.

```
Microsoft Windows [Version 10.0.19043.1165]
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C:\Users\21bca53>set parth=C:\Program Files (x86)\Java\jdk1.8.0_161\bin

C:\Users\21bca53>v:

V:\cd java j1

V:\java j1>javac prime.java

V:\java j1>java prime
Enter any number:
57487
57487 is Prime Number

V:\java j1>
```

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

```
**
***
****
import java.util.Scanner; class
pattern1
{
       public static void main(String args[])
              int i,j;
              Scanner s=new Scanner(System.in);
              System.out.println("How many row do you want to print:");
for(i=0;i<5;i++)
              {
                      System.out.print(" ");
       for(j=0;j<=i;j++)
System.out.print("* ");
                      System.out.println(" ");
              }
       }
}
```

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

```
1
         2
            3
   4
            5
                    6
7
        8
                9
                        10
import java.util.Scanner; class
pattern2
        public static void main(String args[])
        {
                int r,i,j,counter=1;
                Scanner s=new Scanner(System.in);
                System.out.println("Enter any number:");
r=s.nextInt();
                for(i=0;i<r;i++)
        {
                for(j = 0; j < r-i-1; j++)
                {
                                System.out.print(" ");
                }
                for(int k = 0; k \le i; k++)
                {
                                System.out.print(counter+" ");
                                 counter++;
                System.out.println();
}
}
```

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

ABCDE

**ABCD** 

**ABC** 

A<sub>B</sub>

Α

```
import java.util.Scanner; class
pattern3
{
        public static void main(String args[])
int a,i,j=0; char c;
        Scanner s=new Scanner(System.in);
System.out.println("Enter any number:");
        a=s.nextInt();
for(j=a;j>=1;j--)
{
                         c='A';
                         for(i=1;i<=j;i++)
                {
                                 System.out.print(c+" ");
                                 C++;
                         }
                         System.out.println("\n");
                }
}
}
```

```
_
C:\Windows\system32\cmd.exe
                                                                                              ×
Microsoft Windows [Version 10.0.19043.1165]
(c) Microsoft Corporation. All rights reserved.
C:\Users\21bca53>set parth=C:\Program Files (x86)\Java\jdk1.8.0_161\bin
C:\Users\21bca53>v:
V:\>cd java j1
V:\java j1>javac pattern3.java
V:\java j1>java pattern3
Enter any number:
ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghij
ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghi
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ ` a b c d e f g h
ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefg
ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdef
ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcde
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ _ ` a b c d
```

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

```
import java.util.Scanner;
class factorial
{
    public static void main(String args[])
    {
        int a,i,fact=1;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter any number:");
        a=s.nextInt();

        for(i=1;i<=a;i++)
        {
            fact=fact*i;
        }
        System.out.println("Factorial of "+a+" is: "+fact);
      }
}</pre>
```

#### 16) Write a program to display Fibonacci series import

```
java.util.Scanner;
class fibonacci
  public static void main(String args[])
    int a,b=0,c=1,k,i;
    Scanner s=new Scanner(System.in);
System.out.println("Enter any number:");
                    System.out.print(b+"
a=s.nextInt();
"+c);
    for(i=2;i<a;++i)
k=b+c;
       System.out.print(" "+k);
              c=k;
b=c;
         }
}
```

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19043.1165]
(c) Microsoft Corporation. All rights reserved.
C:\Users\21bca53>set parth=C:\Program Files (x86)\Java\jdk1.8.0_161\bin
C:\Users\21bca53>v:
V:\>cd java j1
V:\java j1>javac fibonacci.java
V:\java j1>java fibonacci
Enter any number:
12
0 1 1 2 3 5 8 13 21 34 55 89
V:\java j1>__
```