PRACTICAL:4

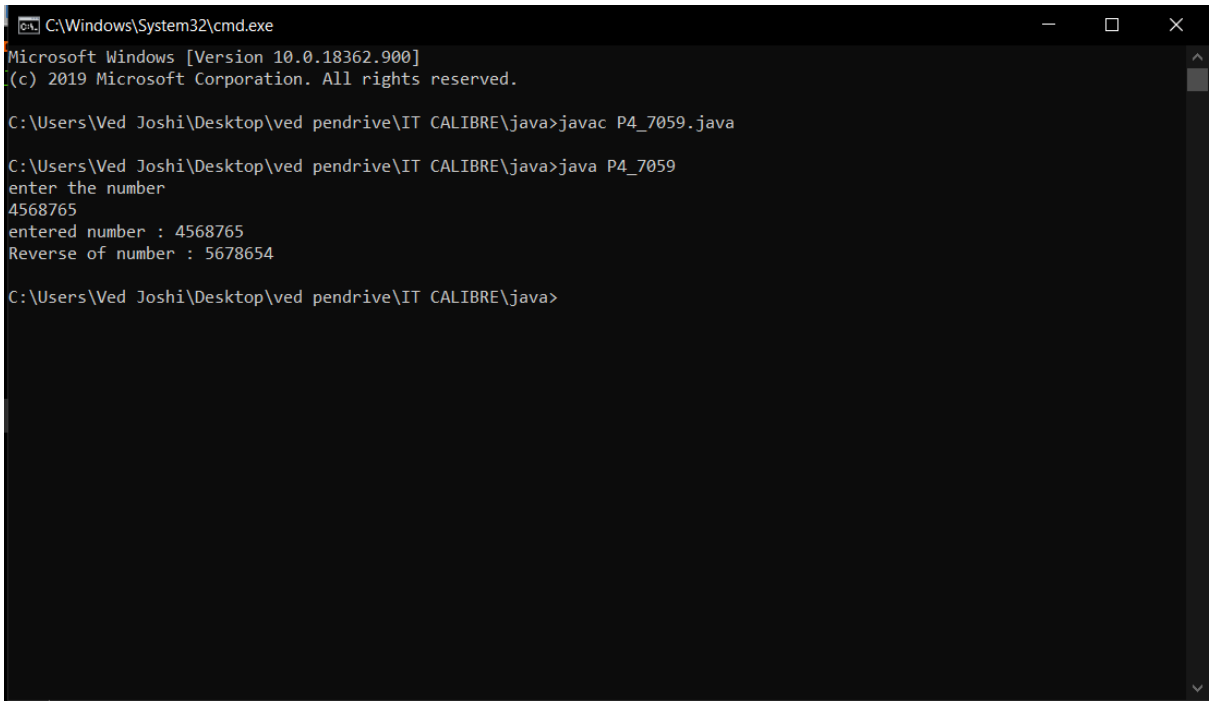
AIM: Write a Java program to reverse the digits of a given number.

PROGRAM:

```
import java.util.Scanner;
class P4_7059
{
	int n;
	int rev;
	void getElement()
	{
		Scanner sc=new Scanner(System.in);
		System.out.println("enter the number");
		n=sc.nextInt();
	}
	void reverse()
	{
		System.out.println("entered number : "+n);
		while(n != 0)
		{
	 int digit = n % 10;
	 rev = rev * 10 + digit;
	 n /= 10;
	}
		System.out.println("Reverse of number : "+rev);
	 }
	public static void main(String args[])
	{
		P4_7059 r=new P4_7059();
		r.getElement();
```

```
                r.reverse();
        }
}
```

OUTPUT:



PRACTICAL:5

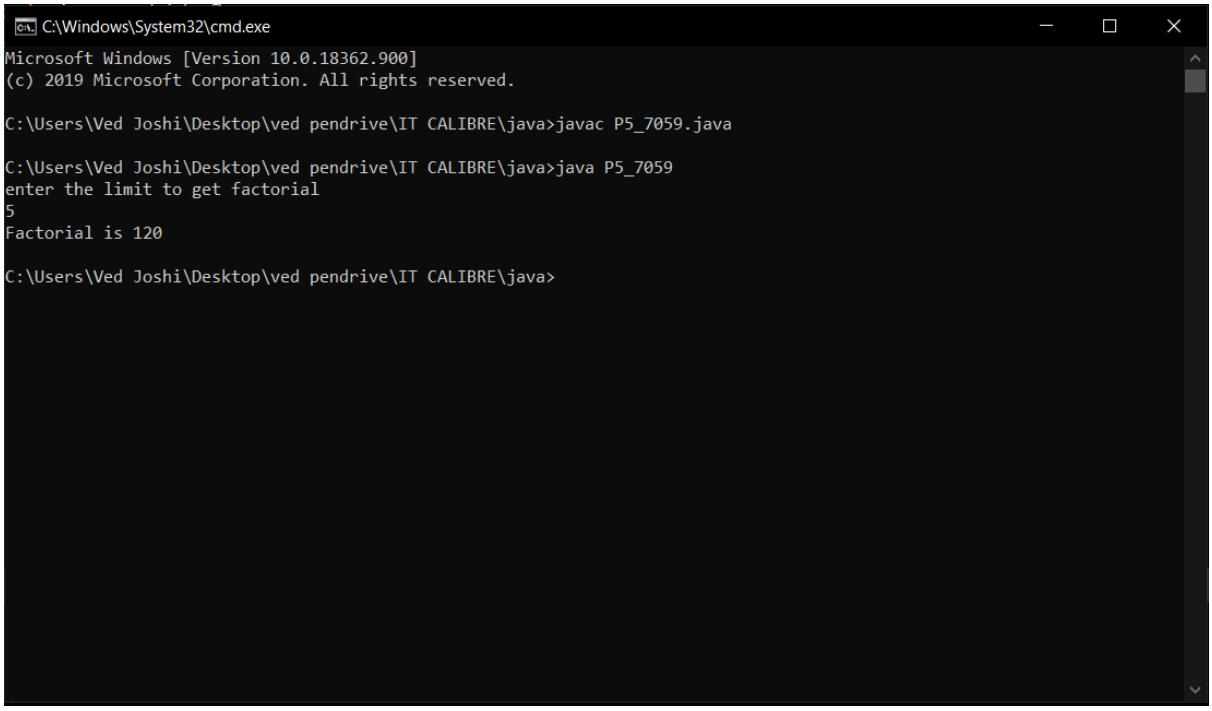
AIM: Write a Java program to find factorial of a given number.

PROGRAM:

```
import java.util.Scanner;
class P5_7059
{
        void fact()
        {
                Scanner sc=new Scanner(System.in);
                int num;
                int factorial = 1;
                System.out.println("enter the limit to get factorial");
                num=sc.nextInt();
      for(int i=1;i<=num;++i)
      {
         factorial*=i;
      }
      System.out.println("Factorial is "+factorial);
        }

        public static void main(String args[])
        {
                Fact f1=new Fact();
                f1.fact();
        }
}
```

OUTPUT:


C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>javac P5_7059.java
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>java P5_7059
enter the limit to get factorial
5
Factorial is 120
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>

PRACTICAL:6

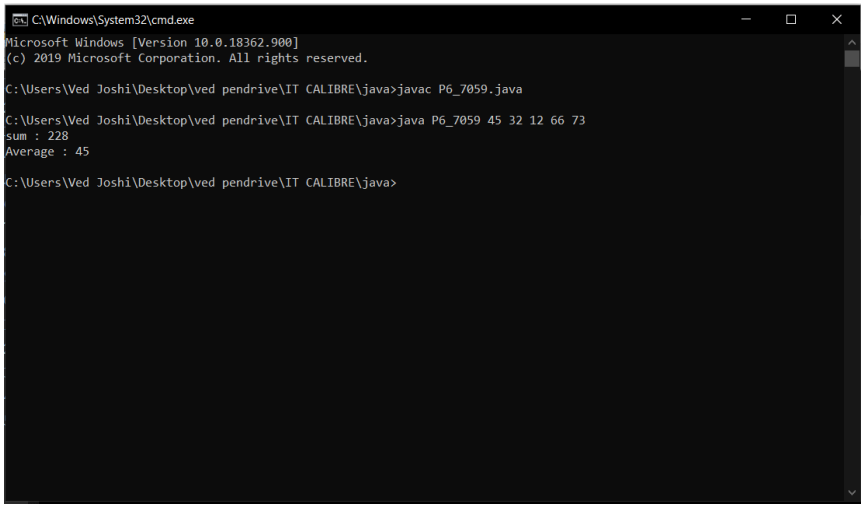
AIM: Write a program to read five integer numbers from command line and display their sum and average.

PROGRAM:

```
class P6_7059
{
  public static void main(String args[])
  {
     int i;
                int sum=0;
                for(i=0;i<args.length;i++)
                {
                        sum=sum+Integer.parseInt(args[i]);
                }
                System.out.println("sum : "+sum);
                System.out.println("Average : "+sum/args.length);
  }

}
```

OUTPUT:



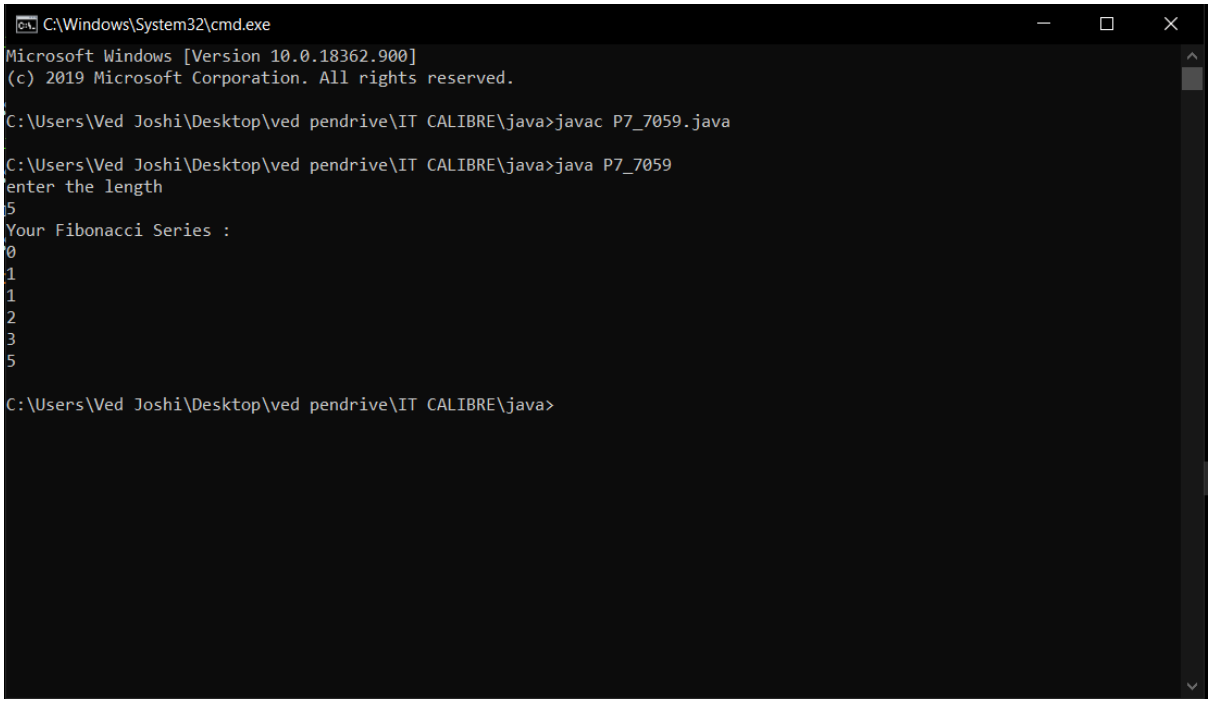
PRACTICAL:7

AIM: Write a Java program to print Fibonacci series.

PROGRAM:

```
import java.util.Scanner;
class P7_7059
{
	public static void main(String args[])
	{
		Scanner sc=new Scanner(System.in);
		int n,t1=0,t2=1,temp;
		System.out.println("enter the length");
		n=sc.nextInt();
		System.out.println("Your Fibonacci Series : ");
		for(int i=0;i<=n;i++)
		{
			System.out.println(""+t1);
			temp=t1+t2;
			t1=t2;
			t2=temp;
		}
	}
}
```

OUTPUT:


C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>javac P7_7059.java
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>java P7_7059
enter the length
5
Your Fibonacci Series :
0
1
1
2
3
5
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>

PRACTICAL:8

AIM: Write a java program to sum of two dimensional matrix using array.

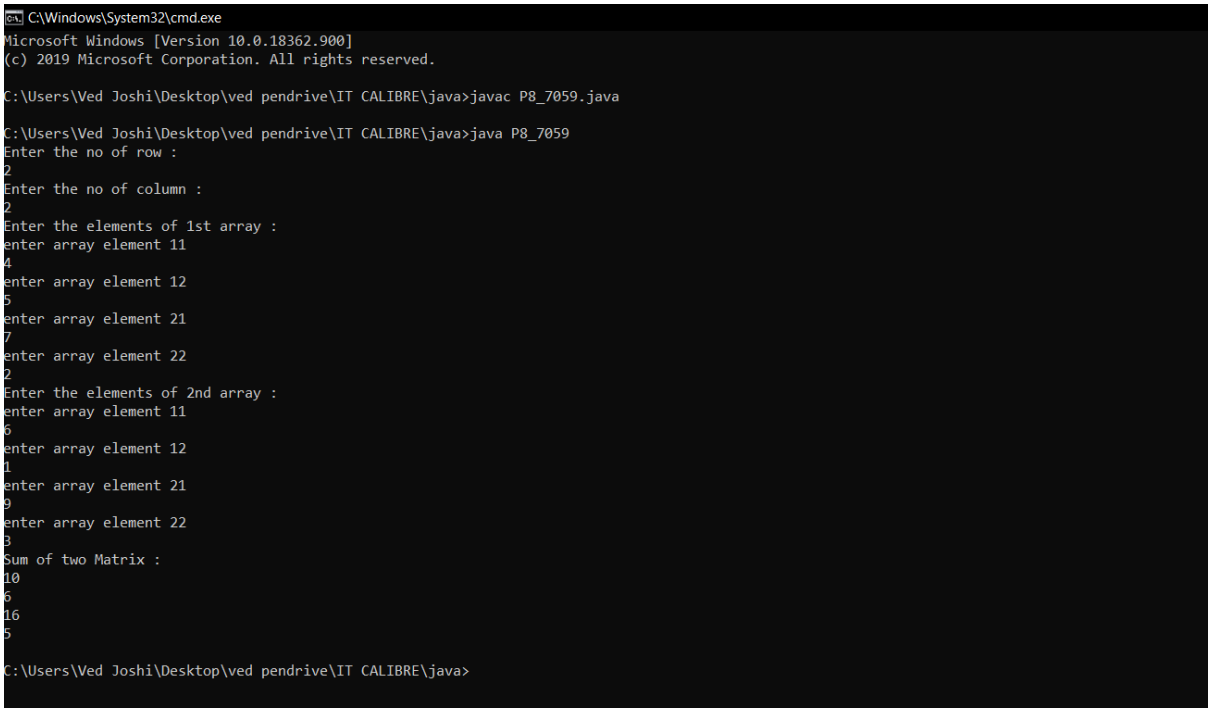
PROGRAM:

```
import java.util.Scanner;
class P8_7059
{

    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        int a[][]=new int[100][100];
        int b[][]=new int[100][100];
        int sum[][]=new int[100][100];
        int row,col;
        int i,j;
        System.out.println("Enter the no of row : ");
        row=sc.nextInt();
        System.out.println("Enter the no of column : ");
        col=sc.nextInt();
        System.out.println("Enter the elements of 1st array : ");
        for(i=0;i<row;++i)
        {
            for(j=0;j<col;++j)
            {
                System.out.println("enter array element "+(i+1)+(j+1));
                a[i][j]=sc.nextInt();
            }
        }
        System.out.println("Enter the elements of 2nd array : ");
```

```
            for(i=0;i<row;++i)
            {
                for(j=0;j<col;++j)
                {
                    System.out.println("enter array element "+(i+1)+(j+1));
                    b[i][j]=sc.nextInt();
                }
            }
            for (i=0; i<row;++i)
            {
                for (j=0;j<col;++j)
                {
                    sum[i][j] = a[i][j] + b[i][j];
                }
            }
        System.out.println("Sum of two Matrix : ");
            for(i=0;i<row;++i)
            {
                for(j=0;j<col;++j)
                {
                    System.out.println(sum[i][j]);
                }
            }
        }
}
```

OUTPUT:


C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18362.900]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>javac P8_7059.java
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>java P8_7059
Enter the no of row :
2
Enter the no of column :
2
Enter the elements of 1st array :
enter array element 11
4
enter array element 12
5
enter array element 21
7
enter array element 22
2
Enter the elements of 2nd array :
enter array element 11
6
enter array element 12
1
enter array element 21
9
enter array element 22
3
Sum of two Matrix :
10
6
16
5
C:\Users\Ved Joshi\Desktop\ved pendrive\IT CALIBRE\java>

PRACTICAL:9

AIM: Write a java program to sort of 5 numbers using array.

PROGRAM:

```
import java.util.Scanner;
class P9_7059
{
   public static void main(String args[])
   {
        int n,temp;
      Scanner sc= new Scanner(System.in);
      System.out.print("Enter array length:");
      n = sc.nextInt();
      int ar[] = new int[n];
      System.out.println("Enter array elements:");
      for(int i=0;i<n;i++)
      {
         ar[i]=sc.nextInt();
      }
      for(int i=0;i<n;i++)
      {
         for(int j=i+1;j<n;j++)
                              {
            if(ar[i]>ar[j])
            {
               temp = ar[i];
               ar[i] = ar[j];
               ar[j] = temp;
            }
         }
      }
```

```
        System.out.print("Array Elements in Ascending Order: ");
        for(int i=0;i<n-1;i++)
        {
           System.out.print(ar[i]+",");
        }
        System.out.println(ar[n-1]);
    }
}
```

OUTPUT: