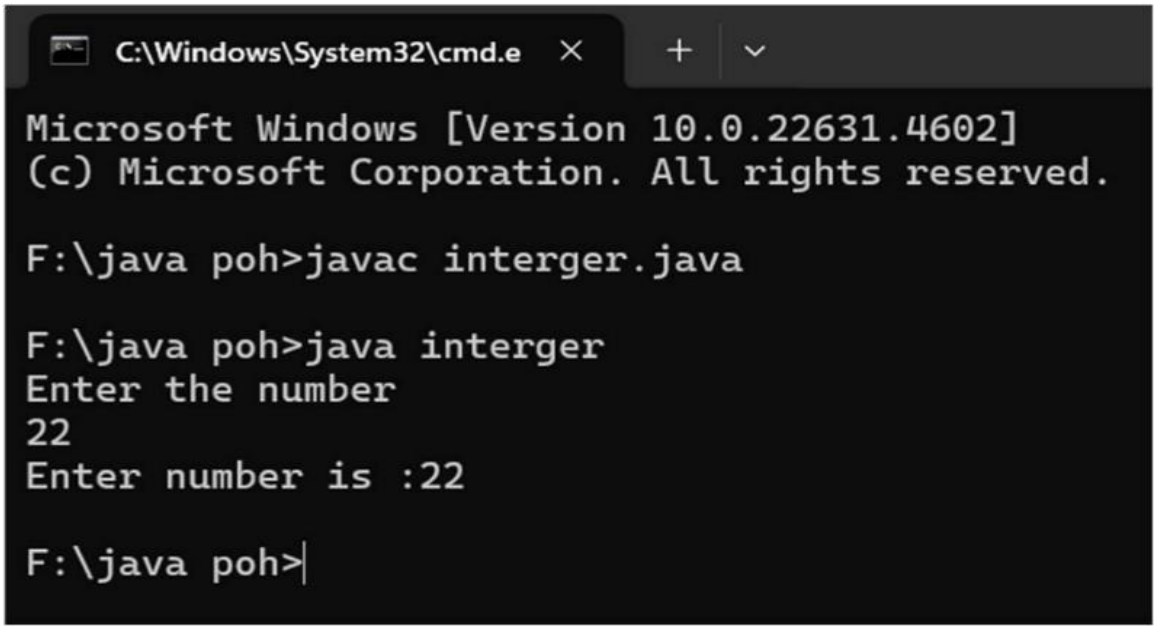
1.Write a program in java to Read and Print an Integer value..

```
import java.util.Scanner;

public class interger

{
        public static void main(String args[])
        {
                int num;
                System.out.println("Enter the number");
Scanner S=new Scanner(System.in);

                num=S.nextInt();
                System.out.println("Enter number is :" +num);
        }
}
```

OUTPUT:-

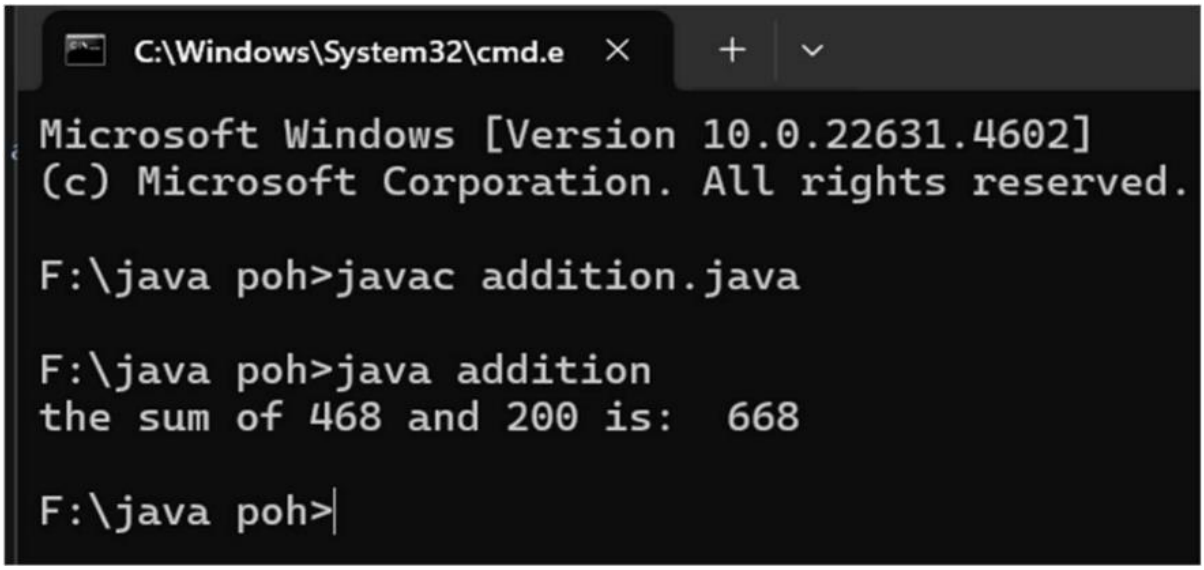


.

2.Write a program in java for Adddition of Two Numbers with and without Using Scanner.

```
import java.util.Scanner;

public class Addition

{

        public static void main(String args[])

{

        int num1 = 468;

        int num2 = 200;

        int sum  =  num1 + num2;

        System.out.println(" the sum of  " +  num1 + " and " +  num2 + " is: " + sum);

}
}
```

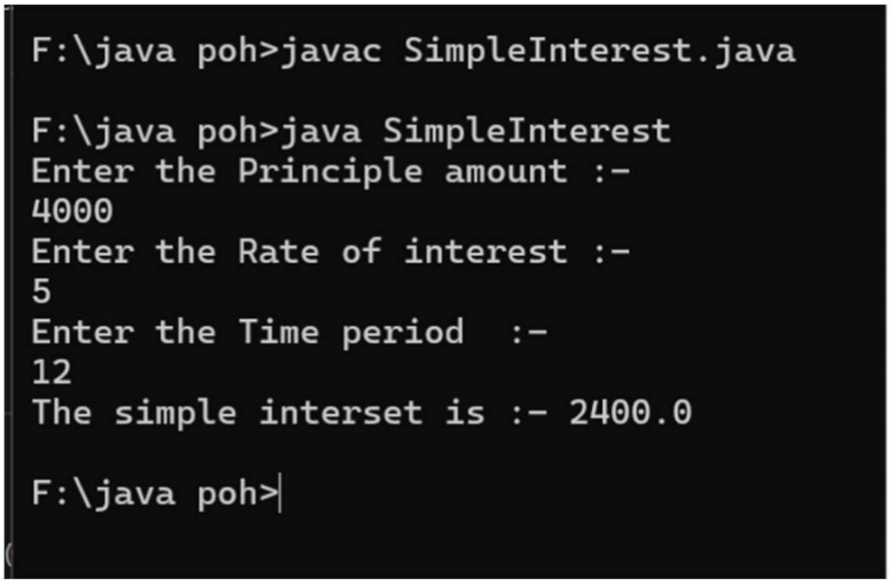
OUTPUT:-



3. Write a program in java to calculate Simple interest

```
import java.util.Scanner;

 class SimpleInterest

{
            public static void main(String args[])
          {
                    Scanner in = new Scanner(System.in);
                    System.out.println("Enter the Principle amount :-");
        double principle = in.nextDouble();

                    System.out.println("Enter the Rate of interest :-");
                    double rate = in.nextDouble();
                    System.out.println("Enter the Time period  :-");
double time = in.nextDouble();

                    double sp = principle * rate * time/100;

                    System.out.println("The simple interset is :- "+sp);
          }
  }
```

OUTPUT:-



4. Write a program in java to display ASCII value of alphabets.?

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

public static void main(String args[]) {

        System.out.println("ASCII values of uppercase alphabets:");
        for (char ch = 'A'; ch <= 'Z'; ch++) {
            System.out.println(ch + " : " + (int) ch);
        }
        System.out.println("\nASCII values of lowercase alphabets:");
        for (char ch = 'a'; ch <= 'z'; ch++)  {
                System.out.println(ch + " : " + (int) ch);
        }
    }
}
```

OUTPUT:-

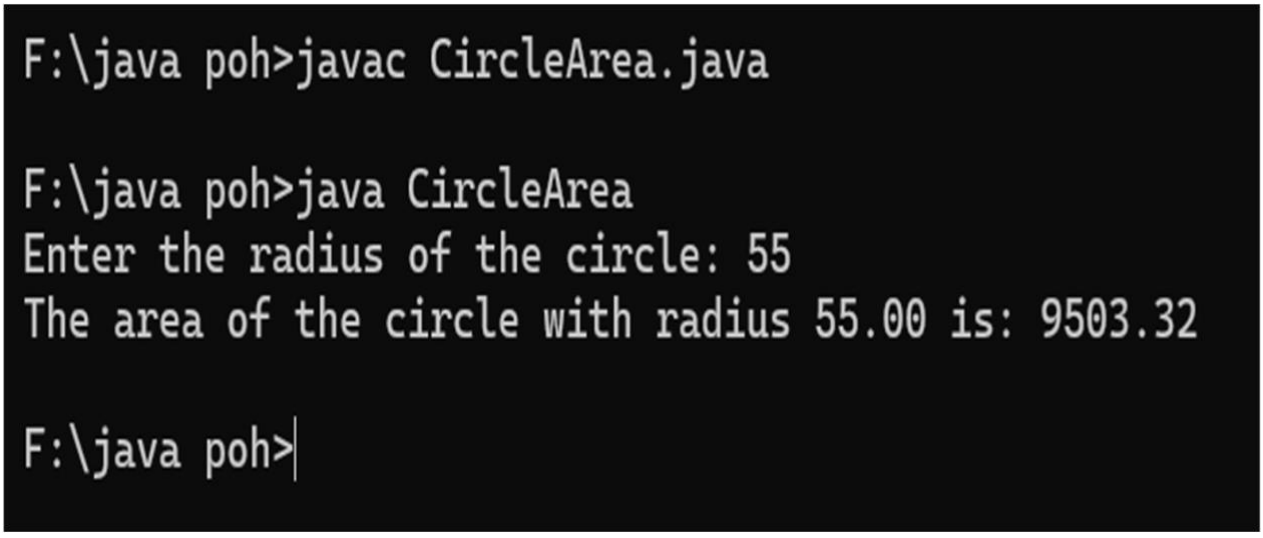
```
F:\java poh>javac AsciiValues.java

F:\java poh>java AsciiValues
ASCII values of uppercase alphabets:
A : 65
B : 66
C : 67
D : 68
E : 69
F : 70
G : 71
H : 72
I : 73
J : 74
K : 75
L : 76
M : 77
N : 78
O : 79
P : 80
Q : 81
R : 82
S : 83
T : 84
U : 85
V : 86
W : 87
X : 88
Y : 89
Z : 90
```

```
ASCII values of lowercase alphabets:
a : 97
b : 98
c : 99
d : 100
e : 101
f : 102
g : 103
h : 104
i : 105
j : 106
k : 107
l : 108
m : 109
n : 110
o : 111
p : 112
q : 113
r : 114
s : 115
t : 116
u : 117
v : 118
w : 119
x : 120
y : 121
z : 122

F:\java poh>
```

5. Write a program in java to Calculate Area of The Circle.

```
import java.util.Scanner;

 public class CircleArea

{
        public static void main(String args[])
        {
                Scanner scanner = new Scanner(System.in);

                 System.out.print("Enter the radius of the circle: ");

                double radius = scanner.nextDouble();         double area = Math.PI * radius *
                radius;

                System.out.printf("The area of the circle with radius %.2f is: %.2f%n", radius,
area);

                scanner.close();

        }
}
```

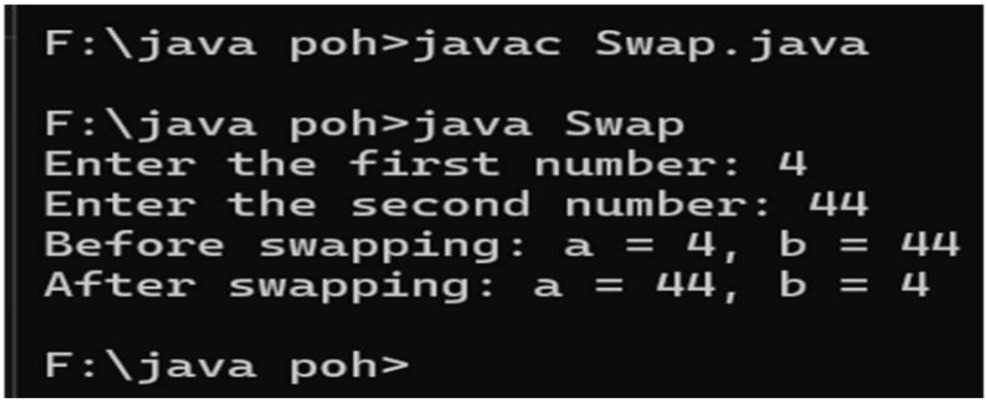
OUTPUT:-



6. Write a program in java to swap two numbers without using third variable.

```
import java.util.Scanner;

class Swap

{

        public static void main(String args[])

        {

                Scanner scanner = new Scanner(System.in);

                System.out.print("Enter the first number: ");

                int a = scanner.nextInt();

                System.out.print("Enter the second number: ");

                int b = scanner.nextInt();

                System.out.println("Before swapping: a = " + a + ", b = " + b);

               a = a + b;

               b = a - b;

               a = a - b;

               System.out.println("After swapping: a = " + a + ", b = " + b);

               scanner.close();

        }

}
```

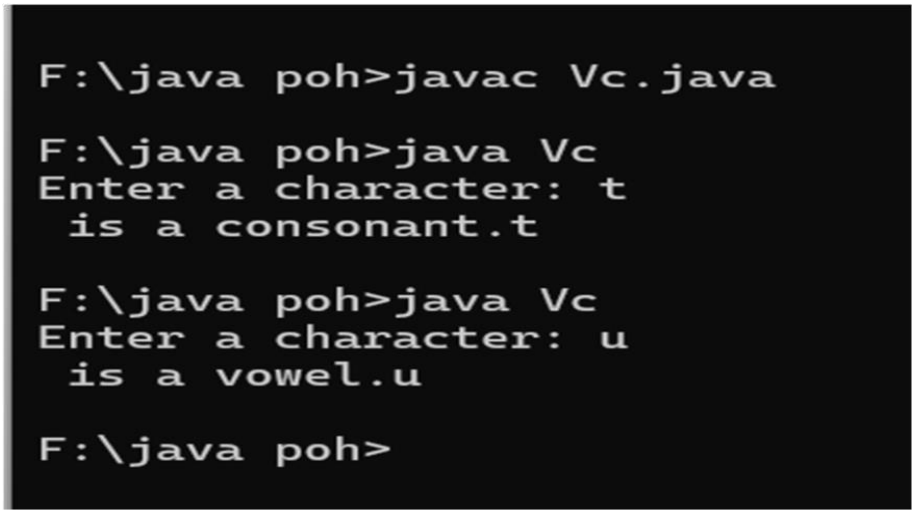
OUTPUT:-



7. Write a program in java to Check Vowel or Consonant.

```
import java.util.Scanner;

public class Vc

{
    public static void main(String[] args)
    {
            Scanner scanner = new Scanner(System.in);

            System.out.print("Enter a character: ");

            char ch = scanner.next().charAt(0);

            char lowerCh = Character.toLowerCase(ch);

    if (Character.isLetter(lowerCh))

    {
            if (lowerCh == 'a' || lowerCh == 'e' || lowerCh == 'i' || lowerCh == 'o' || lowerCh == 'u')

    {
             System.out.println( " is a vowel."+ch);
    }
    else
    {
            System.out.println( " is a consonant."+ch);
    }
  }
    else
    {
            System.out.println("Invalid input! Please enter letter.");
     }
   scanner.close();
   }
}
```

OUTPUT:-

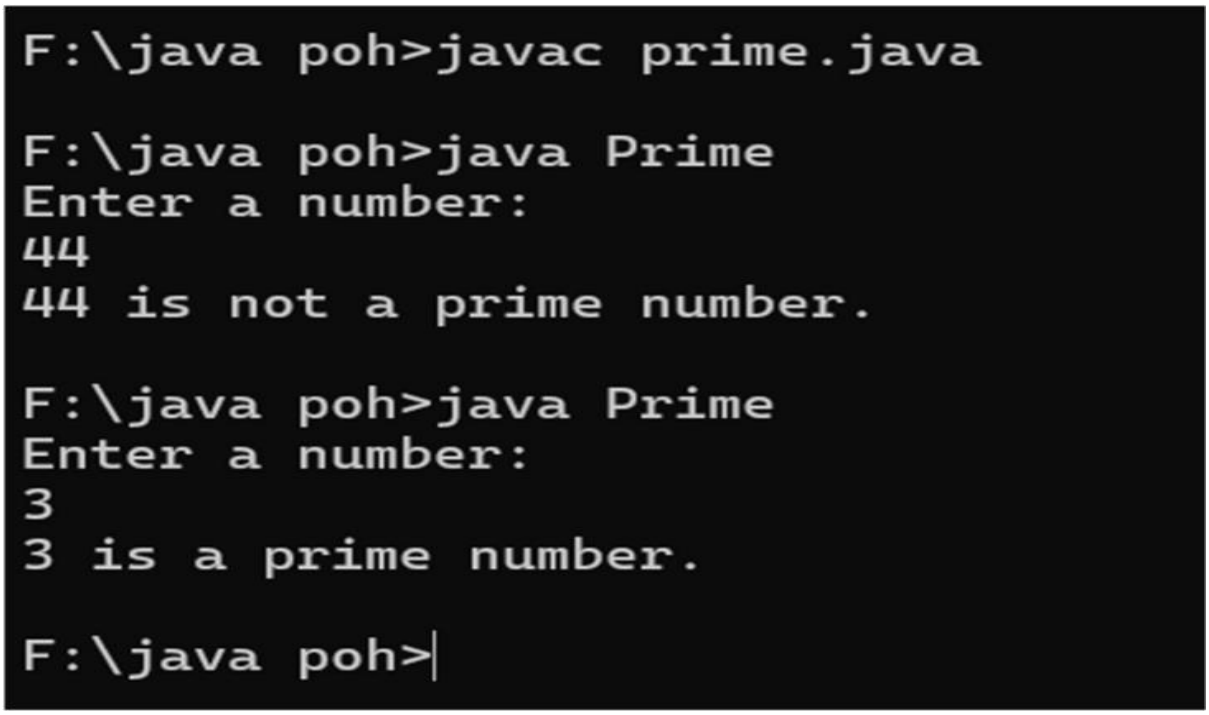


8. Write a program in java to Check Whether a Number is Prime.

```
import java.util.Scanner;

class Prime {

public static void main(String args[]) {

        Scanner in = new Scanner(System.in);
        System.out.println("Enter a number:");
        int num = in.nextInt();
        if (num < 2)
        {
                System.out.println(" is not a prime number :" +num);
                return;
        }
        int count = 0;

 for (int i = 1; i <= num; i++) {

      if (num % i == 0) {

      count++;

      }
```

```
 }
       if (count == 2) {
                    System.out.println(" a prime number :" +num);
       }
      else {
                   System.out.println("  not a prime number :" +num);
       }
       in.close();
      }
}
```

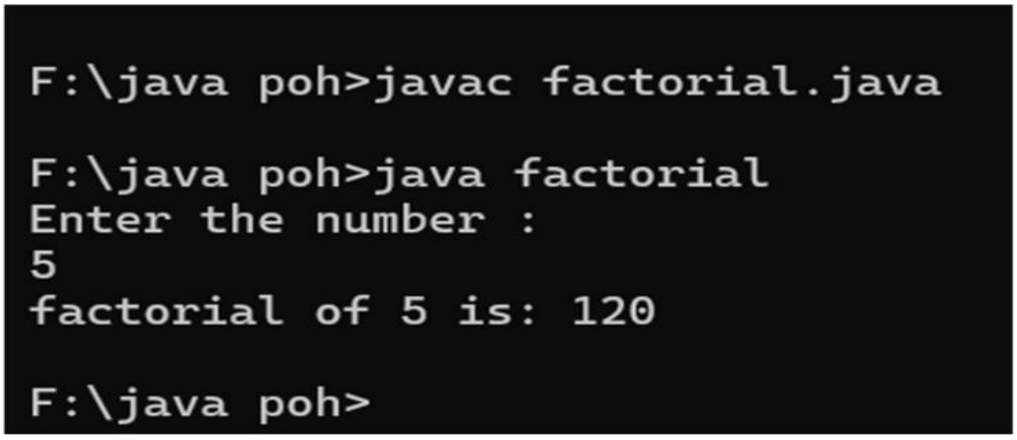
OUTPUT:-



9. Write a program in java to find factorial of a number.

```
import java.util.Scanner;

class factorial

{
    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
        int i,fact=1;

        System.out.println("Enter the number :");

        int num = sc.nextInt();

         for(i=1; i<=num ;i++)

        {
            fact = fact*i;
        }
        System.out.println("factorial of " + num + " is: " + fact);
    }
}
```

OUTPUT:-

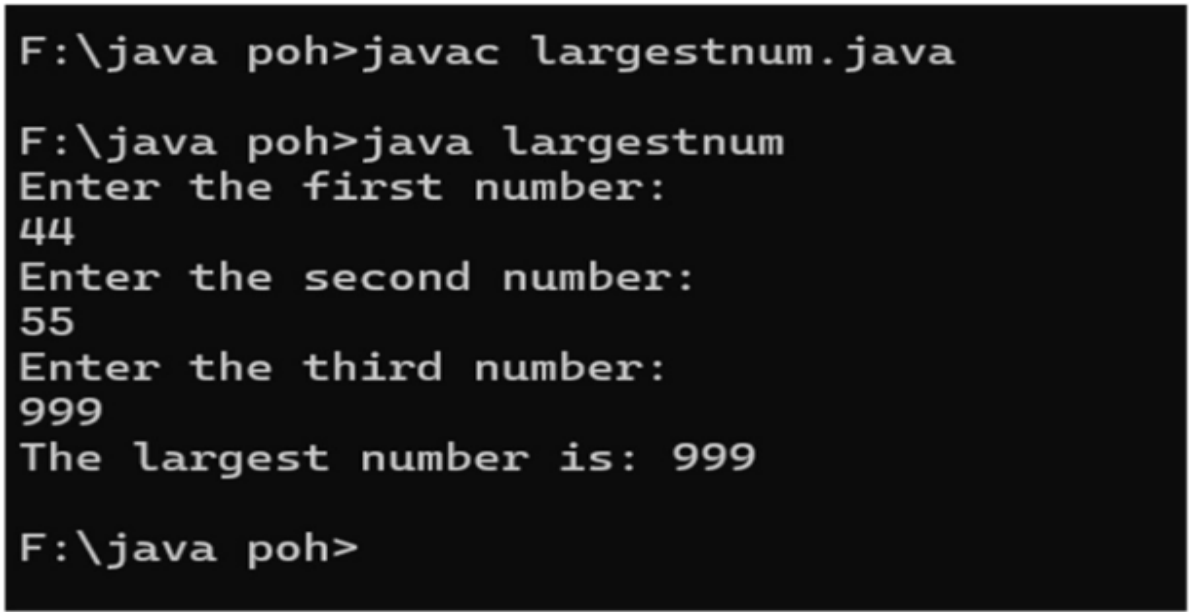


10. Write a program in java to Find the Largest of three Numbers.

```
import java.util.Scanner;

public class Largestnum

{
   public static void main(String args[])
      {
       Scanner sc = new Scanner(System.in);
      System.out.println("Enter the first number:");

      int num1 = sc.nextInt();

      System.out.println("Enter the second number:");

      int num2 = sc.nextInt();

       System.out.println("Enter the third number:");

      int num3 = sc.nextInt();

       int l;
       if (num1 > = num2 && num1 > = num3)
      {
                lar = num1;
       }
      else if (num2 >= num1 && num2 >= num3)
      {
                lar=num;
      }

      else

      {

                lar=num3;

       }
```

```
            System.out.println("The largest number is: " + lar);
    }
}
```

OUTPUT:-



11. Write a program in java to Find Sum of Fibonacci Series

```
import java.util.Scanner;
class fabsum {
        public static void main(String args[])
       {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter the number of terms in the Fibonacci
series:");
int n = sc.nextInt();
int a = 0, b = 1;
int sum = 0;
for (int i = 1; i <= n; i++)
{
          sum += a;
          int next = a + b;
           a = b;
          b = next;
 }
      System.out.println("The sum of the first " + n + " terms of the Fibonacci series is: " + sum);
   }
}
```

OUTPUT:-

```
F:\java poh>javac sum.java

F:\java poh>java sum
Enter the number of terms in the Fibonacci series:
7
The sum of the first 7 terms of the Fibonacci series is: 20

F:\java poh>
```

12. Write a program in java to print the elements of an array.

```
import java.util.Scanner;

class ArrayEle

{
   public static void main(String args[])
   {
      Scanner sc = new Scanner(System.in);
      System.out.println("Enter the size of the array:");
    int size = sc.nextInt();
   int array = new int[size];

      System.out.println("Enter " + size + " elements:");
      for (int i = 0; i < size; i++)
     {
              array[i] = sc.nextInt();
     }
      System.out.println("The elements of the array are:");
      for (int i = 0; i < size; i++)
      {
              System.out.println(array[i]);
       }
   }
 }
```

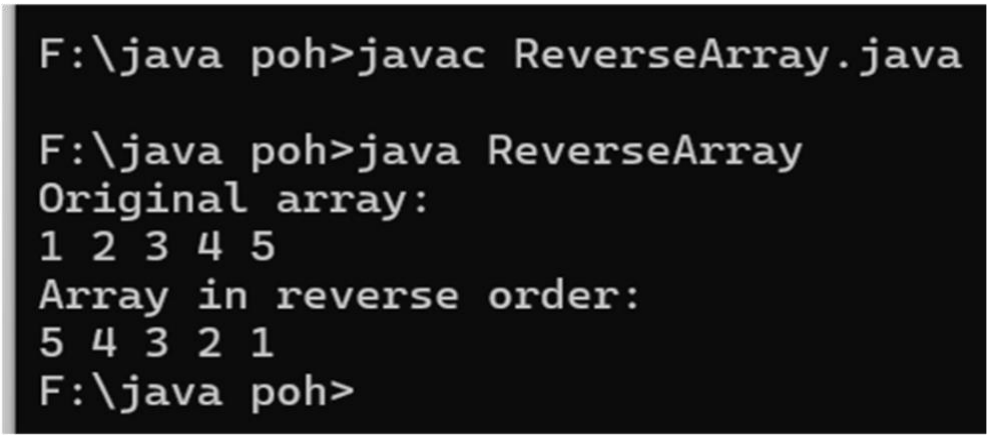
OUTPUT:-

```
F:\java poh>java ArrayEle
Enter the size of the array:
3
Enter 3 elements:
1
2
3
The elements of the array are:
1
2
3

F:\java poh>
```

13. Write a program in java to print the elements of an array in reverse order

```
import java.util.Scanner;

class ReverseArray {

public static void main(String args[])

 {
       int [] arr = new int [] {1, 2, 3, 4, 5};
      System.out.println("Original array: ");

        for (int i = 0; i < arr.length; i++)

      {
                System.out.print(arr[i] + " ");
       }
       System.out.println(“ ”);
       System.out.println("Array in reverse order: ");
       for (int i = arr.length-1;  i >= 0;  i--)
      {
                 System.out.print(arr[i] + " ");
       }
   }
}
```

OUTPUT:-



14. Write a program in java to copy all elements of one array into another array.

```
import java.util.Scanner;
```

```
class copyarray

 {
   public static void main(String args[])
     {
            int a[]=new int[5];

            int b[]=new int[5];

             Scanner r=new Scanner(System.in);
            System.out.println("Enter the value of first array :");
            for(int i=0;i<5;i++)

            {
                    a[i]=r.nextInt();
            }
            System.out.println("first array Elements :");
            for(int i=0; i<5 ;i++)

            {
                    System.out.println(a[i]+" ");
            }

        System.out.println("second array Elements :");


            for(int i=0; i<5 ;i++)
            {
                    b[i]=a[i];
                    System.out.println(b[i]+" ")  }
            }
 }
```

OUTPUT:-

```
F:\java poh>java copyarray
Enter the value of first array :
2
3
4
4
5
first array Elements :
2
3
4
4
5
second array Elements :
2
3
4
4
5

F:\java poh>
```

15. Write a program in java to Print Right Triangle Star Pattern.

import java.util.Scanner;

```
class Rtriangle {

  public static void main(String args[])  {

        int rows = 5;

 for (int i = 1; i <= rows; i++)

                  {

           for (int j = 1; j <= i; j++)

                              {

              System.out.print("*");

           }

           System.out.println(“ ”);

       }

    }

}
```

OUTPUT:-