

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;

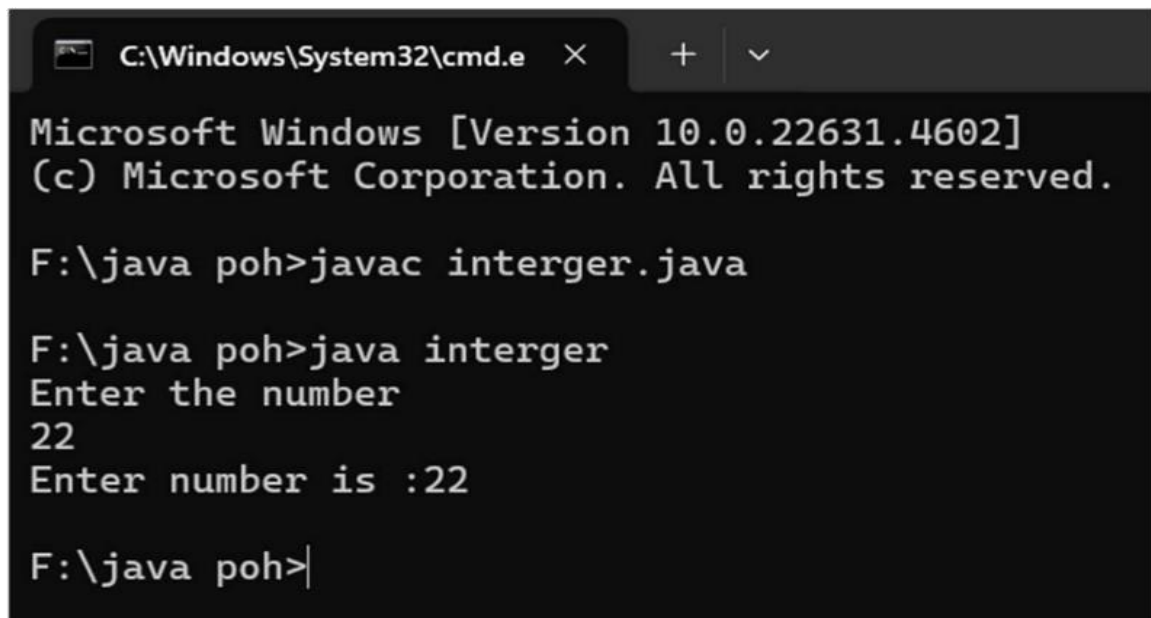
        System.out.println("Enter the number");

        Scanner S=new Scanner(System.in);

        num=S.nextInt();

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

OUTPUT:-



```
C:\Windows\System32\cmd.e  X  +  v

Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

F:\java poh>javac interger.java

F:\java poh>java interger
Enter the number
22
Enter number is :22

F:\java poh>|
```

2. Write a program in java for Addition 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;

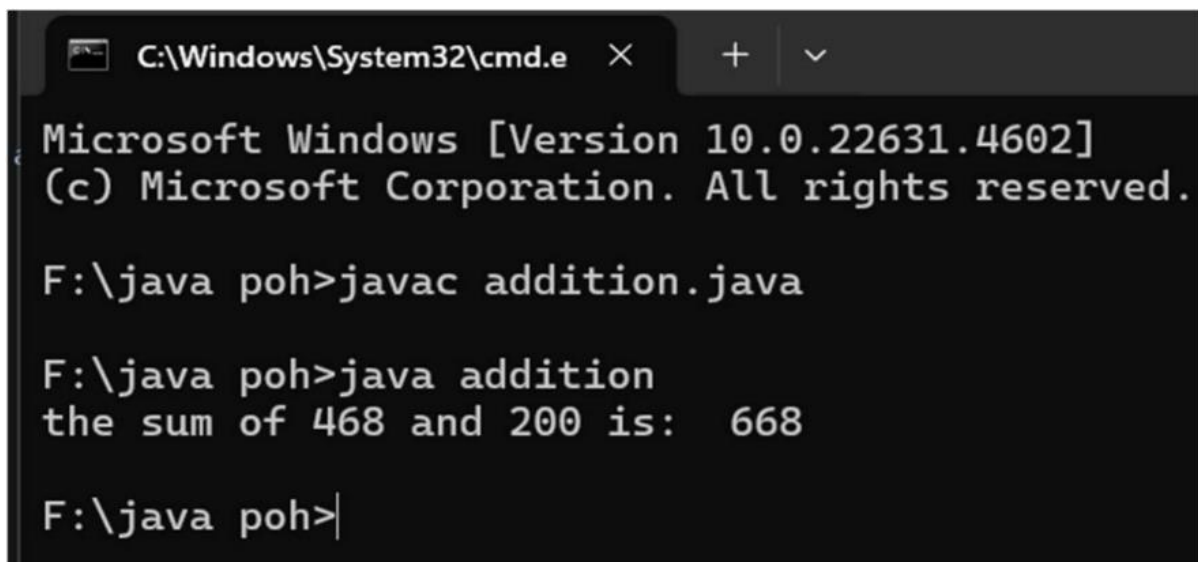
        int sum = num1 + num2;

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

    }

}
```

OUTPUT:-



```
C:\Windows\System32\cmd.e  X  +  v

Microsoft Windows [Version 10.0.22631.4602]
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F:\java poh>javac addition.java

F:\java poh>java addition
the sum of 468 and 200 is: 668

F:\java poh>|
```

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();

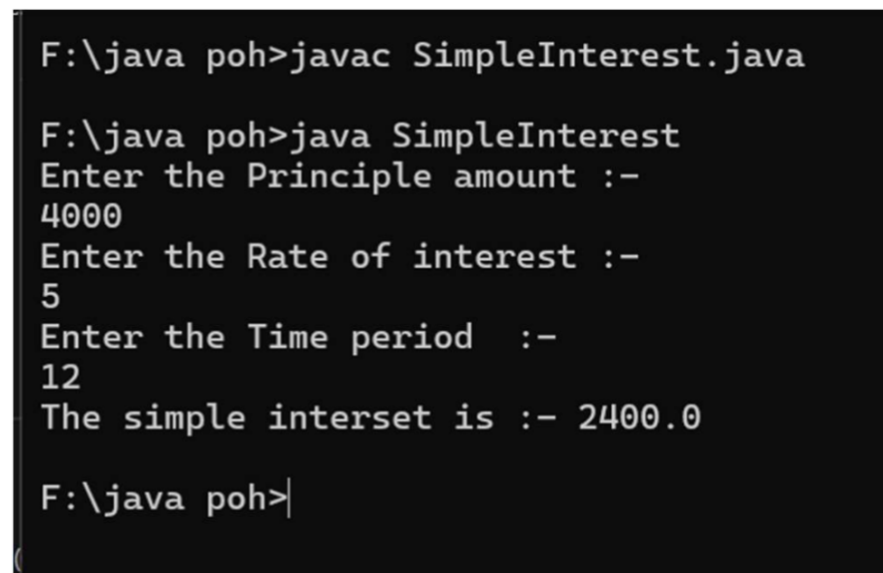
        double sp = principle * rate * time/100;

        System.out.println("The simple interest is :- "+sp);

    }

}
```

OUTPUT:-



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

F:\java poh>java SimpleInterest
Enter the Principle amount :-
4000
Enter the Rate of interest :-
5
Enter the Time period :-
12
The simple interest is :- 2400.0

F:\java poh>
```

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);

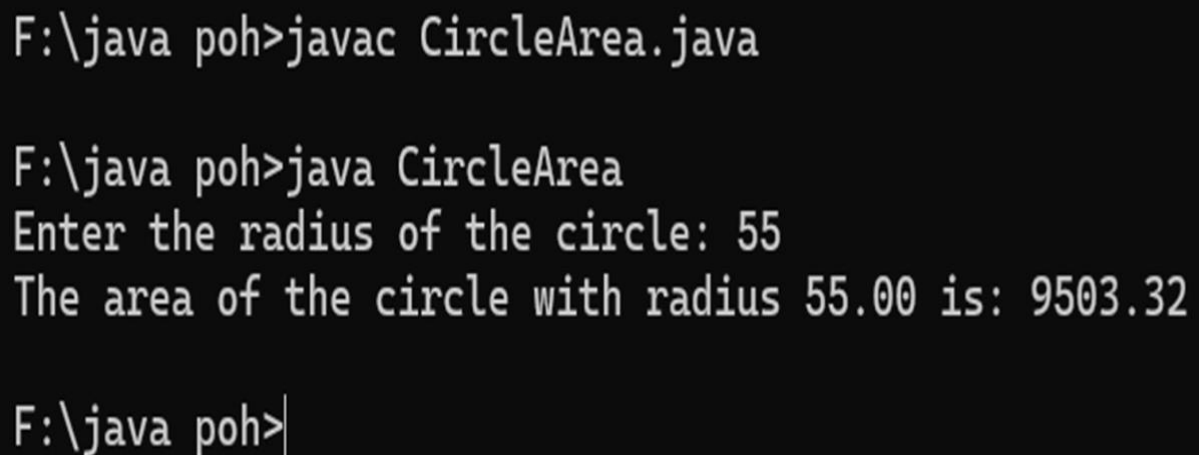
        System.out.print("Enter the radius of the circle: ");

        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:-



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

F:\java poh>java CircleArea
Enter the radius of the circle: 55
The area of the circle with radius 55.00 is: 9503.32

F:\java poh>|
```

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;

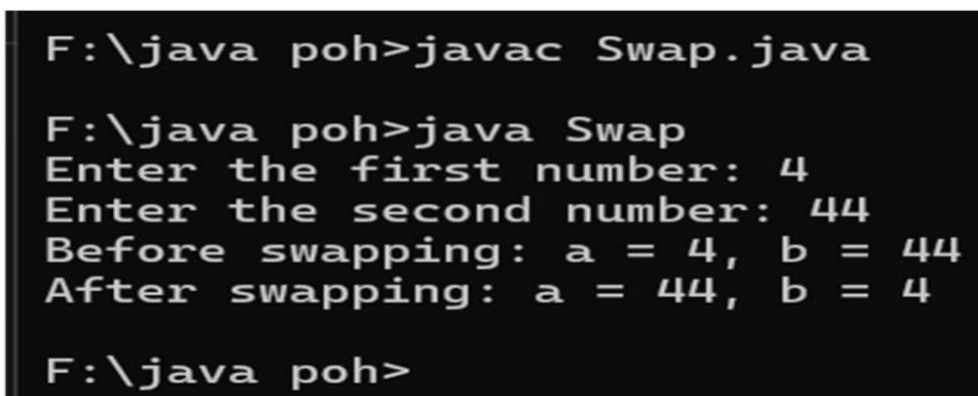
        System.out.println("After swapping: a = " + a + ", b = " + b);

        scanner.close();

    }

}
```

OUTPUT:-



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

F:\java poh>java Swap
Enter the first number: 4
Enter the second number: 44
Before swapping: a = 4, b = 44
After swapping: a = 44, b = 4

F:\java poh>
```

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:-

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

F:\java poh>java Vc
Enter a character: t
is a consonant.t

F:\java poh>java Vc
Enter a character: u
is a vowel.u

F:\java poh>
```

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++;
```

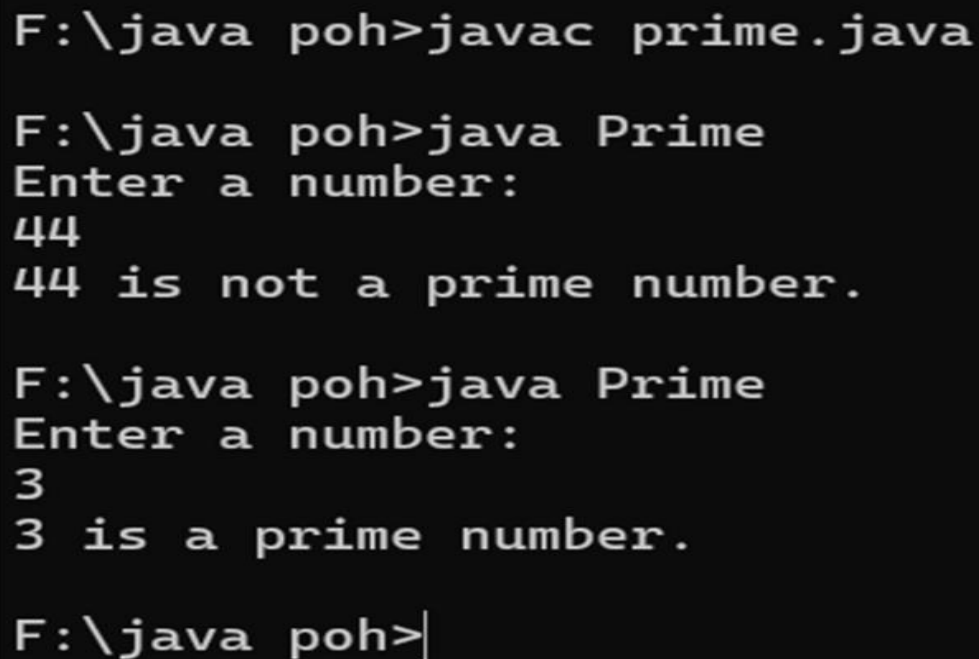
```
        }
```

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

OUTPUT:-



```
F:\java poh>javac prime.java  
  
F:\java poh>java Prime  
Enter a number:  
44  
44 is not a prime number.  
  
F:\java poh>java Prime  
Enter a number:  
3  
3 is a prime number.  
  
F:\java poh>|
```

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;

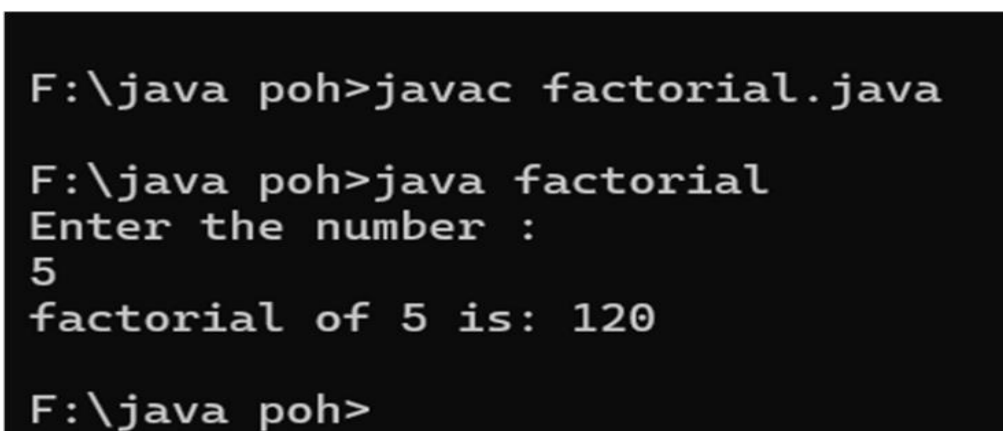
        System.out.println("Enter the number :");

        int num = sc.nextInt();

        for(i=1; i<=num ;i++)
        {
            fact = fact*i;
        }

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

OUTPUT:-



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

F:\java poh>java factorial
Enter the number :
5
factorial of 5 is: 120

F:\java poh>
```

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:");

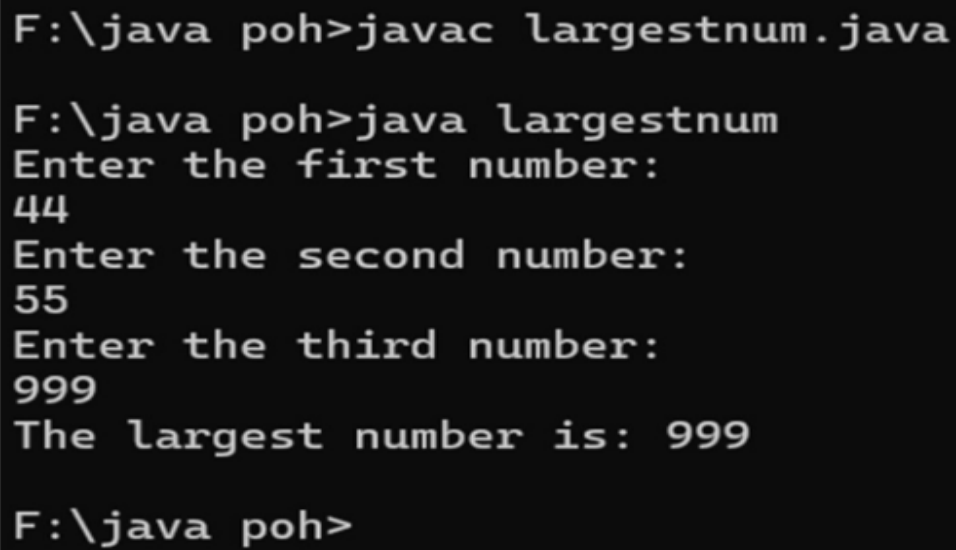
        int num3 = sc.nextInt();

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

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

OUTPUT:-



```
F:\java poh>javac largestnum.java  
  
F:\java poh>java largestnum  
Enter the first number:  
44  
Enter the second number:  
55  
Enter the third number:  
999  
The largest number is: 999  
  
F:\java poh>
```

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++)

        {

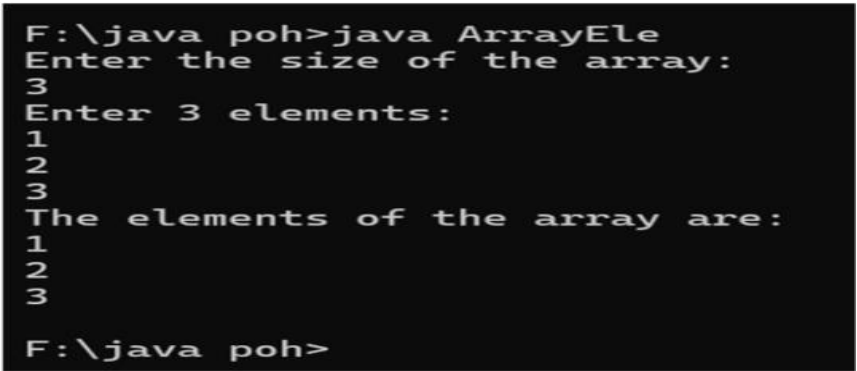
            System.out.println(array[i]);

        }

    }

}
```

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.  
in  
elements of an array in reverse order

Write a program  
java to print the

```
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--)

        {

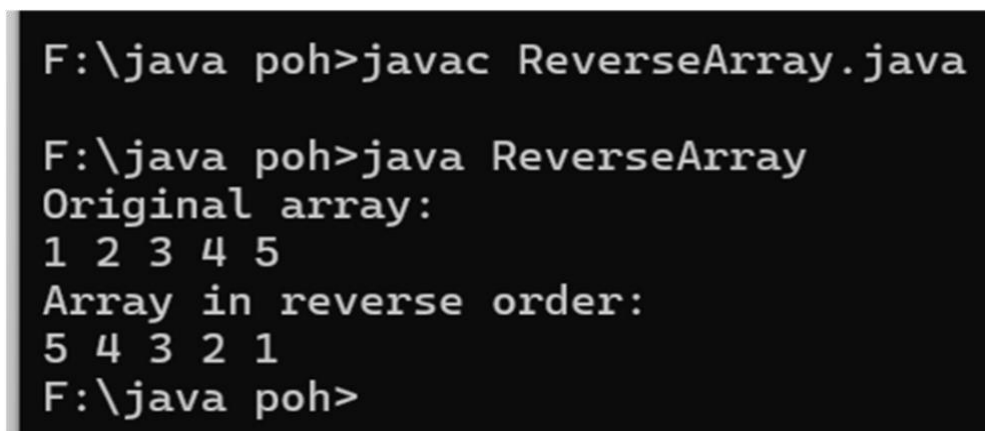
            System.out.print(arr[i] + " ");

        }

    }

}
```

OUTPUT:-



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

F:\java poh>java ReverseArray
Original array:
1 2 3 4 5
Array in reverse order:
5 4 3 2 1
F:\java poh>
```

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

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

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```
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>
```

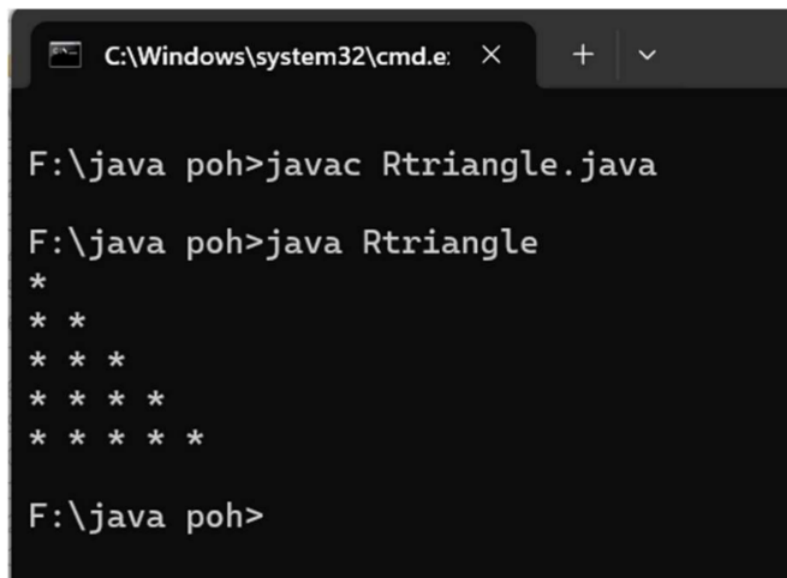
15. Write a program in java to Print Right Triangle Star Pattern.

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

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```
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:-



```
C:\Windows\system32\cmd.e: X + v  
  
F:\java poh>javac Rtriangle.java  
  
F:\java poh>java Rtriangle  
*  
* *  
* * *  
* * * *  
* * * * *  
  
F:\java poh>
```