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

```
Ans:
import java.util.Scanner;
public class interger
{
    public static void main(String args[])
    {
        int num;
        System.out.println("Enter the number :-");
        Scanner J=new Scanner(System.in);
        num=J.nextInt();
        System.out.println("Enter number is :" +num);
    }
}
Output:
```

```
F:\ankit>javac jk.java
F:\ankit>java jk
Enter the number :-
44
Enter number is :44
```

2. Write a program in java for Addition of Two Numbers with and without using Scanner.

```
Ans:
import java.util.*;
public class addition
{
    public static void main(String args[])
{
    int num1 = 33;
```

```
int num2 = 23;
int sum = num1 + num2;
System.out.println("the sum of " + num1 + " and " + num2 + " is: " + sum);
}
Output:

F:\ankit>javac addition1.java
F:\ankit>java addition1
the sum of 33 and 23 is: 56
```

3. Write a program in java to calculate Simple interest.

```
Ans:
import java.util.*;
class Interest
{
  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);
  }
```

}

```
F:\ankit>javac Interest.java
F:\ankit>java Interest
Enter the Principle amount:
44555
Enter the Rate of interest:
44
Enter the Time period:
55
The simple interset is: 1078231.0
```

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

```
Ans:
import java.util.*;
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:\ankit>java Ascii
ASCII values of uppercase alphabets:
A : 65
B: 66
C
     67
D
     68
Ε
     69
F
     70
G
     71
Н
     72
I
J
     73
     74
ĸ
     75
     76
L
     77
78
М
Ν
     79
0
Р
     80
Q
R
     81
     82
S
     83
T
     84
     85
٧
     86
W
     87
X
Y
     88
     89
     90
```

```
ASCII values of lowercase alphabets
a: 97
b: 98
c: 99
d: 100
e: 101
d: 100
e: 101
f: 102
g: 103
h: 104
i: 105
j: 106
k: 107
l: 108
m : 109
n : 110
   : 111
: 112
: 113
0
р
q
    : 114
   : 115
   : 116
t
u: 117
   : 118
   : 119
   : 120
   : 121
    : 122
F:\ankit>
```

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

```
Ans:
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:\ankit>java CircleArea
 Enter the radius of the circle: 2
 The area of the circle with radius 2.00 is: 12.57
```

F:\ankit>

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

Ans: import java.util.Scanner; class Swap{

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```
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:\ankit>javac Swap.java
 F:\ankit>java Swap
 Enter the first number: 44
 Enter the second number: 33
 Before swapping: a = 44, b = 33
 After swapping: a = 33, b = 44
 F:\ankit>
 F:\ankit>
```

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

```
Ans:
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:\ankit>javac ak.java
F:\ankit>java ak
Enter a character: e
is a vowel.e

F:\ankit>java ak
Enter a character: t
is a consonant.t

F:\ankit>
```

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

```
Ans: 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 \le 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:

```
F:\ankit>javac prime1.java
F:\ankit>java Prime1
Enter a number:
5
  a prime number :5
F:\ankit>java Prime1
Enter a number:
777
  not a prime number :777
F:\ankit>
```

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

```
Ans: 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:\ankit>javac factorial2.java
F:\ankit>java Factorial2
Error: Could not find or load
Caused by: java.lang.NoClassD
F:\ankit>java factorial2
Enter the number:
4
factorial of 4 is: 24
F:\ankit>
```

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

```
Ans: 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();
```

```
int num3 = sc.nextInt();
    int I;
    if (num1 > = num2 & num1 > = num3) {
     lar = num1;
    } else if (num2 >= num1 && num2 >= num3) {
      lar= num2;
    } else {
      lar = num3;
    }
    System.out.println("The largest number is: " + lar);
 }
}
Output:
                           F:\java poh>javac largestnum.java
                           F:\java poh>java largestnum
                           Enter the first number:
                           Enter the second number:
                           Enter the third number:
                           The largest number is: 999
                           F:\java poh>
11. Write a program in java to Find Sum of Fibonacci Series
Ans: import java.util.Scanner;
class fabsum
```

{

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public static void main(String args[])

Scanner sc = new Scanner(System.in);

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

System.out.println("Enter the number of terms in the Fibonacci series:");

Output:

```
F:\ankit>javac sum
F:\ankit>java sum
Error: Could not find or load main class sum
Caused by: java.lang.ClassNotFoundException: sum
F:\ankit>java fabsum
Enter the number of terms in the Fibonacci series:
5
The sum of the first 5 terms of the Fibonacci series is: 7
F:\ankit>
```

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

```
Ans: 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

```
Ans: import java.util.Scanner;

class ReverseArray {

public static void main(String args[])

{
```

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

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

```
Ans: import java.util.Scanner;

class copyarray

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

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

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

```
F:\ankit>javac Rtriangle.java
F:\ankit>java Rtriangle
*
**
**
***
***
F:\ankit>
```

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