1.write java program to print "hello world" message?

code :

```java
package Practical1;

public class Edemo {

        public static void main(String[] args) {
                // TODO Auto-generated method stub
                System.out.println("hello world");

        }

}
```

Output :

```
<terminated> Edemo [Java Application] C:\Users\Mr. Use
hello world
```

2.Write a program to find the sum of two numbers entered by the user.

   code :

```java
package Hellow;

import java.util.Scanner;
class Add {
        public int add(int c, int d) {
                return c + d;
        }
}
public class AditionNumber {
        public static void main(String[] args) {
                Add addition = new Add(); //creating an instance of the add class
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter your two numbers for addition:");
                int c = sc.nextInt(); //Reading the first integer input from the user
                int d = sc.nextInt(); //Reading the first integer input from the user
                //Displaying the result of the addition
                System.out.println("Addition of numbers is: " + addition.add(c, d));
        }
}
```

Output :

```
<terminated> AditionNumber [Java Application] C:\Users\Mr. User\.p2\
Enter your two numbers for addition:
20
10
Addition of numbers is: 30
```

3.Write a Java program to check whether a given number is even or odd.

Code :

```java
package Sudeep;   // This is the package name
import java.util.Scanner;
public class EvenODD {   // This is the class name
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);   // Creating a Scanner object to take input
from the user
        System.out.print("Enter a number to check if it is even or odd: ");
        int a = scanner.nextInt();   // Reading the integer input from the user
        // Checking if the number is even or odd
        if (a % 2 == 0) {
            System.out.println(a + " is even.");   // Printing the result if the number is even
        } else {
            System.out.println(a + " is odd.");   // Printing the result if the number is odd
        }
    }
}
```

Output :

```
<terminated> EvenODD [Java Application] C:\Users\Mr. User\.p2\pool\plugins\org.eclipse.j
Enter a number to check if it is even or odd: 50
50 is even.
```

4.Write a java program to find greatest of 3 numbers.

Code :

```java
package Hellow;
import java.util.*;
public class GraterInThree {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        int arr [] = new int[3]; // using array for get 3 number
        System.out.println("Enter your 3 number : ");
        for(int i=0;i < arr.length;i++) { //getting input on each index by loop
            arr [i] = sc.nextInt();
        }
        int grater = arr[0]; // starting with index of zero
        for(int i=0;i<arr.length;i++) {
            if (arr[i]> grater) { // compareing each value by using for loop
                grater = arr[i];
            }
        }
        System.out.println("Grater number is : "+ grater); //printing grater number
        sc.close();
    }
}
```

Output:

```
<terminated> GraterInThree [Java Application] C:\User
Enter your 3 number :
5
15
20
Grater number is : 20
```

5.Write a program to implement a basic calculator that takes input and evaluates it.

Code :

```java
package NDemo;
import java.util.Scanner;
public class Calculater {
        public static void main(String[] args) {
                Scanner scanner = new Scanner(System.in);
                System.out.print("Enter the first number: ");
                double num1 = scanner.nextDouble();
                System.out.print("Enter the second number: ");
                double num2 = scanner.nextDouble();
                System.out.print("Enter the operator (+, -, *, /): ");
                char operator = scanner.next().charAt(0);
                double result = 0;
                //its basic calculater thats why using if condition insted of switch
                if (operator == '+') {
                        result = num1 + num2;
                } else if (operator == '-') {
                        result = num1 - num2;
                } else if (operator == '*') {
                        result = num1 * num2;
                } else if (operator == '/') {
                        result = num1 * num2;
                }
                System.out.println("result is : "+ result);
                scanner.close();
        }
}
```

Output:

```
<terminated> GraterInThree [Java Application] C:\User
Enter your 3 number :
5
15
20
Grater number is : 20
```

6.Write a Java program to check if a given number is prime or not.

Code :

```java
package HelloW;
import java.util.Scanner;
public class PrimeCheack {
        public static void main(String[] args) {
                Scanner scanner = new Scanner(System.in);
                System.out.print("Enter a number: ");
                int number = scanner.nextInt();
                if (isPrime(number)) {
                        System.out.println(number + " is a prime number.");
                } else {
                        System.out.println(number + " is not a prime number.");
                }
                scanner.close();
        }
        public static boolean isPrime(int num) {
                // Numbers less than or equal to 1 are not prime
                if (num <= 1) {
                        return false;
                }
                // Checking for factors from 2 up to the square root of num
                for (int i = 2; i <= Math.sqrt(num); i++) {
                        if (num % i == 0) {
                                return false;
                        }
                }
                return true;
        }
}
```

Output:

```
<terminated> PrimeCheack [Java Applicat
Enter a number: 10
10 is not a prime number.
```

7.Create a Java program that compares two numbers and prints the larger one.

Code :

```java
package Hellow;
import java.util.Scanner;

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

        // Prompt the user to enter the first number
```

```java
        System.out.print("Enter the first number: ");
        int number1 = scanner.nextInt();

        // Prompt the user to enter the second number
        System.out.print("Enter the second number: ");
        int number2 = scanner.nextInt();

        // Compare the two numbers and find the larger one
        int largerNumber = number1 > number2 ? number1 : number2;

        // Print the larger number
        System.out.println("The larger number between " + number1 + " and " + number2 + " is:
 " + largerNumber);

        scanner.close();
    }
}
```

Output:

```
<terminated> NumberCamparer [Java Application] C:\Users
Enter the first number: 10
Enter the second number: 20
The larger number between 10 and 20 is: 20
```

8.Write a Java program that takes an age input from the user and determines if they are eligible to vote (considering the legal voting age).

 Code:

```java
package Voting;
import java.util.Scanner;
public class VotingCheck {
        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter your age: ");
                int age = sc.nextInt();
                if (age == 18) {
                        System.out.println("make your voter id you can vote");
                }
                else if (age<18) {
                        System.out.println("You are not eligible for voating");
                }else if (age>18) {
                        System.out.println("You are eligible for voating");
                }else {
                        System.out.println("inter valid value");
                }
                sc.close();
        }
}
```

Output:

```
<terminated> VotingCheck [Java Applicat
Enter your age:
23
You are eligible for voating
```