

1. What will be the output of this program:

```
int a = 10;
if (a=11)
    System.out.println("I am 11");
else
    System.out.println("I am not 11");
```

2. Write a program to find out whether a student is pass or fail; if it requires total 40% and at least 33% in each subject to pass. Assume 3 subjects and take marks as an input from the user.
3. Calculate income tax paid by an employee to the government as per the slabs mentioned below:

Income Slab	Tax
2.5L – 5.0L	5%
5.0L – 10.0L	20%
Above 10.0L	30%

Note that there is not tax below 2.5L. Take the input amount as input from the user.

4. Write a Java program to find out the day of the week given the number [1 for Monday, 2 for Tuesday ... and so on!]
5. Write a Java program to find whether a year entered by the user is a leap year or not.
6. Write a program to find out the type of website from the URL:

.com – commercial website

.org – organization website

.in – Indian website

```
package com.company;

import java.util.Scanner;
import java.util.Random;


public class cwh_19_ch4_ps {

    public static void main(String[] args) {

        //    Question 1:
        //    int a = 11;
        //    if(a=11){
        //
        //    }

        // Question 2
        //    byte m1, m2, m3;
        //    Scanner sc = new Scanner(System.in);
        //    System.out.println("Enter your marks in Physics");
        //    m1 = sc.nextByte();
        //
        //    System.out.println("Enter your marks in Chemistry");
        //    m2= sc.nextByte();
        //
```

```
//      System.out.println("Enter your marks in Mathematics");
//      m3 = sc.nextByte();
//      float avg = (m1+m2+m3)/3.0f;
//      System.out.println("Your Overall percentage is: " + avg);
//      if(avg>=40 && m1>=33 && m2>=33 && m3>=33){
//          System.out.println("Congratulations, You have been promoted");
//      }
//      else{
//          System.out.println("Sorry, You have not been promoted! Please try
again.");
//      }
```

// Question 3

```
//      Scanner sc = new Scanner(System.in);
//      System.out.println("Enter your income in Lakhs per annum");
//      float tax = 0;
//      float income = sc.nextFloat();
//      if(income<=2.5){
//          tax = tax + 0;
//      }
//      else if(income>2.5f && income <= 5f){
//          tax = tax + 0.05f * (income - 2.5f);
```

```
//    }
//    else if(income>5f && income <= 10.0f){
//        tax = tax + 0.05f * (5.0f - 2.5f);
//        tax = tax + 0.2f * (income - 5f);
//    }
//    else if(income>10.0f){
//        tax = tax + 0.05f * (5.0f - 2.5f);
//        tax = tax + 0.2f * (10.0f - 5f);
//        tax = tax + 0.3f * (income - 10.0f);
//    }
//
//    System.out.println("The total tax paid by the employee is: " + tax);
//
//    Question 4:
//
//    Scanner sc = new Scanner(System.in);
//    int day = sc.nextInt();
//
//    switch (day){
//        case 1 -> System.out.println("Monday");
//        case 2 -> System.out.println("Tuesday");
```

```
//      case 3 -> System.out.println("Wednesday");
//      case 4 -> System.out.println("Thursday");
//      case 5 -> System.out.println("Friday");
//      case 6 -> System.out.println("Saturday");
//      case 7 -> System.out.println("Sunday");
//  }

//  Question 6
//  Scanner sc = new Scanner(System.in);
//  String website = sc.next();
//  if(website.endsWith(".org")){
//      System.out.println("This is an organizational website");
//  }
//  else if(website.endsWith(".com")){
//      System.out.println("This is a Commercial website");
//  }
//  else if(website.endsWith(".in")){
//      System.out.println("This is an Indian website");
//  }

Random r = new Random();

int a = r.nextInt();
```

```
System.out.println(a);
```

```
}
```

```
}
```