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Assignment -2

① import java.util. scanner;

```java
class leapyear{
    public static void main (string[] args){
        Scanner sc = new scanner (system.in);
        System.out.println ("Enter the year!");
        int year = sc.nextInt();
        if (year % 4 ==0 && year %100! =0 year %
            400 ==0){
            System.out.println ("The year is a leap
                year");
        }
        else
        {
            System.out.println ("The year is not a
                leap year");
        }
    }
}
```

Q(2)

```java
public class Eligibility criteria {
    public static void main (string []args) {
        Scanner sc = new Scanner (system.in);
        System.out.println ("Enter Math marks:");
        int Maths = sc.nextInt ();
        System.out.print ("Enter physics marks:");
        int Physics = sc.nextInt ();
        System.out.print ("Enter chemistry marks:");
        int Chemistry = sc.nextInt ();
        int trio = Maths + Physics + chemistry;
        int two = Maths + Physics;
        if (Maths >= 65 && Physics >= 55 &&
                chemistry >= 50) {
            if ( trio >= 190; two >= 140) {
                system.out.println ("you are
                    eligible for the course");
            }
            else {
                system.out.println ("you are not
                    eligible for the course");
            }
        }
        else {
            system.out.println ("you are not eligible for
                course"); }
        }
    }
```

(5)
```java
public class electric Bill {
    public static void main (String [] args) {
        Scanner sc = new Scanner (System.in);
        double bill = 0;
        System.out.println (" Enter customer id :");
        String id = sc.nextLine();
        System.out.println ("Enter Costomer name :");
        String name = sc.nextLine();
        System.out.println (" Enter unit consumption");
        float unit = sc.nextfloat();
        If (unit < 100) {
           @ System.out.println (" Minimum bill should be
                                   100"); }
        else if ( 100 <= unit && unit < 400) {
            bill = unit * 1.50 ; }
        else if (400 <= unit && unit < 600) {
            bill = unit * 1.80; }
        else if (unit >= 600) {
            bill = unit * 200 }
        i (bill >= 400) {
            bill = bill * 0.15 ; }

        Sout ("Customer id: " + id);
        Sout (" Customer name : " + name);
        Sout (" Total Unit consumption: " + unit);
            Sout ("Total bill " + bill);
    }
)
```

(4)

```
public class Calculation {
public static void main (string [] args) {
    Scanner sc = new Scanner (System.in);
    System.out.println ("Enter num1: ");
    int a = sc.nextInt ();
    System.out.println ("Enter num2: ");
    int b = sc.nextInt ();
    System.out.println ("Enter operation (+,-, */) :");
    char c = sc.next().charAt (0);
    switch (c) {
        case '+':
    System.out.println (a + " " + c + " " + b + ");
    in Sum = a + b;
    sout (sum);
    break;

    case '-':
    Sout (a + " " +
    int sub = a - b;
    sout (sub);
    break;

    case '*':
    sout (mult);
    break;
```

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```java
Case '/':
Sout.(a+ " " + c + " " + b +"=" );
int diRM = a/b;
Sout.(diRM);
break;
default:
system.out.porth.("Invalid operator !!! ");
}
}
{
```