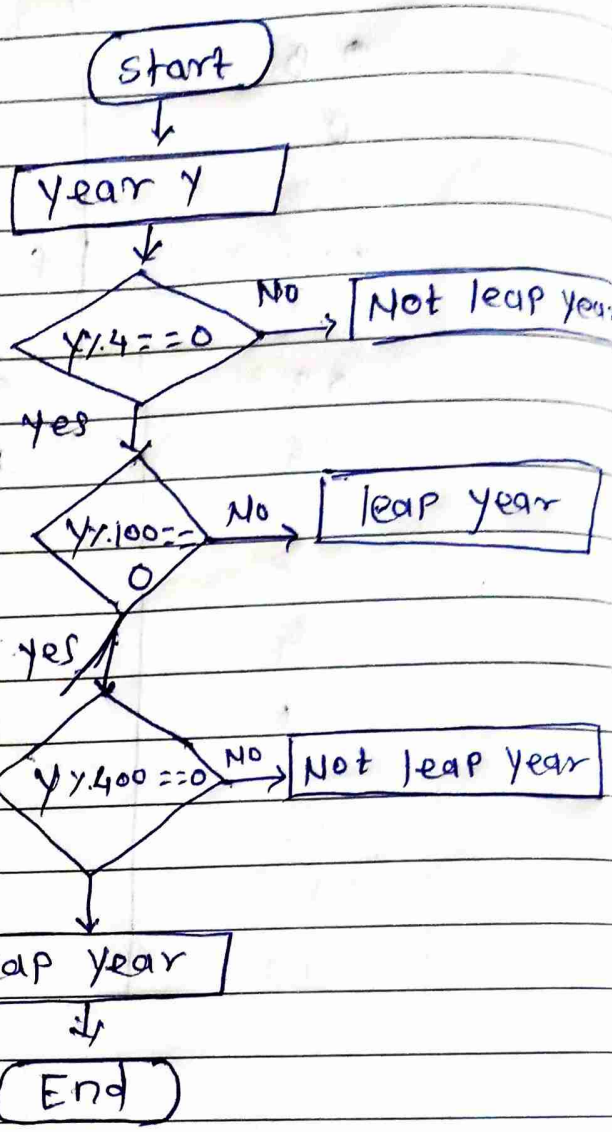
1) Check if a year is leap year or not.

```
int year = 2000
if (year % 400 == 0) {
    print (leap year);
}
else if (year % 100 == 0) {
    System.out.println (not
                leap year);
}
else if (year % 4 == 0) {
    System out.println(leap year);
}
else
{
 System.out.println(not leap
                year);
}
}
}
```



2) Write algorithm to print all odd numbers backward from gg to 1

1) Start
2) For gg to 1
    if (i%2 != 0)
        print i
3] End

3) Java program to Calculate Distance bet" Two points.

```
import java.lang.Math.*;
class DistanceBWpoint
{
  public static void main (String arg[])
  {
    int x1, x2, y1, y2;
    double dis;
    x1=1; y1=1, x2=4, y2=4;
    dis = Math.sqrt((x2-x1)*(x2-x1)+(y2-y1)*(y2-y1));
       System.out.println(" distance between"+dis);
  }
}
```

4) Write algorithm to print sum of even and odd digits, considering 10 numbers are taken from user.

1) Start
2) Input N
3) SumEven = 0
4) Sumodd = 0
5) ~~Sum~~ i = 1
6) if (i<=N)
   if (i%2==0)
      sumEven = sumEven + i;
   else
   sumodd = Sumodd + i;
7) print (Sum of even numbers);
8) print (Sum of odd numbers.
9) End.

5) Calculate product of digit Number

1) Start
2) Input ll, ul,
3) Set num = ll
4) set product = 1
5) set product = product * ll
6) Set product = num + 1
7) if (product <= ul)
        goto step 5
   else
        print (product)
8) End.

6) Prog to print first x terms of series 3N+2 which are not multiples of 4

1) Start
2) read n
3) Set Count = 0
4) for i = 1 to n
        int a = 3*i+2
        if (a%4 != 0)
            print ~~Count~~ (a)
            Count ++
5) End

7) write program to find compound interest provided principle, time and ROI are taken by user.

1) Start
2) Read Rate, R.
3) Read principle P
4) Read time T
5) Read interest
6) interest = (P*R*T)/100
7) print (interest)
8) End