NAME: BARNITA ROY CHOUDHURY DEPT: CSE ROLL-60 17.4.21

1.

package gh;

import java.util.\*;

class Program{

public static double findAngle(int hour1,int min1) {

double hour=(double)hour1;

double min=(double)min1;

double h = ((hour \* 360) / 12) + ((min \* 360) / (12 \* 60));

double m = (min \* 360) / (60);

double angle = Math.abs(h) - Math.abs(m);

//System.out.println(h+" "+m+" ");

if (angle > 180) {

angle = 360 - angle;

}

return angle;

}

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int h=sc.nextInt();

int m=sc.nextInt();

System.out.println("Angle:"+findAngle(h,m));

}

}

2.

package gh;

import java.util.Scanner;

public class Program2 {

public static int divide(int numerator,int denominator) {

int sign;

if(numerator<0 && denominator<0) {

sign=1;

}

else if(numerator>0 && denominator>0) {

sign=1;

}

else

sign=-1;

int result=0;

numerator=Math.abs(numerator);

denominator=Math.abs(denominator);

while(numerator>=denominator) {

numerator=numerator-denominator;

result++;

}

return sign\*result;

}

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int m=sc.nextInt();

int d=sc.nextInt();

System.out.println("result:"+divide(m,d));

}

}

3.

package gh;

import java.util.Scanner;

public class Program3 {

public static double taxCalculator(int salary) {

double tax;

double sal =(double)salary;

if(sal<=200000)

tax=0;

else if(sal<=300000)

tax=0.1\*(sal-200000);

else if(sal<=500000)

tax=(0.2\*(sal-300000))+(0.1\*100000);

else if(sal<=1000000)

tax=(0.3\*(sal-500000))+(0.2\*200000)+(0.1\*100000);

else

tax=(0.4\*(sal-1000000))+(0.3\*500000)+(0.2\*200000)+(0.1\*100000);

return tax;

}

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

int salary=sc.nextInt();

System.out.println("tax:"+taxCalculator(salary));

}

}