HACKERRANK SOLUTIONS

Java 15

**PROBLEM : 1**

[**Hello and name Printer**](https://www.hackerrank.com/contests/basic-statement-java/challenges/hello-and-name)

Write a program to print 'Hello' on screen and your name on a separate line.

**Input Format**

Input Consists of one String

**Constraints**

No Constraints

**Output Format**

Execute the given statement and input.

**Sample Input 0**

Vengatesh

**Sample Output 0**

Hello

Vengatesh

**CODING:**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

String b = "Hello";

String c = s.next();

System.out.println(b);

System.out.println(c);

}

}

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**PROBLEM 2:**

[**Value Performance 1**](https://www.hackerrank.com/contests/basic-statement-java/challenges/value-performance-1)

Kumar wants to know how to display the numbers in programming.can you please guide him to display the numbers.

Input Format

First input corresponds to the Integer Number. Second input corresponds to the Float Number.

Constraints

No Constraints

Output Format

First output corresponds to the Integer Number Second output corresponds to the Float Number

Sample Input 0

4

5.678

Sample Output 0

4

5.68

**CODING :**

import java.io.\*;

import java.util.\*;

import java.lang.Math;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int a = s.nextInt();

float b = s.nextFloat();

System.out.println(a);

System.out.printf("%.2f",b);

}

}

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**PROBLEM 3:**

[**Execute the word with a Statement**](https://www.hackerrank.com/contests/basic-statement-java/challenges/execute-the-word-with-a-statement)

Anil wants to know how to display the word with the statement in the program.can you please guide him to display the Statement.

**Input Format**

First input corresponds to the String.

**Constraints**

No Constraints

**Output Format**

Output corresponds to display the string with Statement.

**Sample Input 0**

C programming

**Sample Output 0**

May I know how to learn C!!!...

**CODING :**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

String c = s.next();

System.out.println("May I know how to learn "+c+"!!!...");

}

}

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**PROBLEM 4:**

**Execute the String Statement 1**

sunil wants to know how to execute the string statement in programming.can you please guide him to execute the Statement.

**Input Format**

First input corresponds to the string

**Constraints**

No Constraints

**Output Format**

Output corresponds to the string with the statement.

**Sample Input 0**

Sunil kumar

**Sample Output 0**

Hai Sunil kumar! Welcome to Programming Language...

**Sample Input 1**

Senthil

**Sample Output 1**

Hai Senthil! Welcome to Programming Language...

**CODING :**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

String a = s.nextLine();

System.out.println("Hai "+a+"!"+" Welcome to Programming Language...");

}

}

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**PROBLEM 5 :**

**Math Functions 1**

Sila wants to know how to calculate the values using math function.can you please guide her to perform the math Calculations. Note:use the Floor, Ceil, Sqrt, Pow

**Input Format**

First Input corresponds to the float value Second input correspond to the Integer value is for square value. Third input correspond to the Integer value is for base value. Fourth input correspond to the Integer value is for power value.

**Constraints**

No Constraints

**Output Format**

Output corressponds to the calculation of Math functions.

**Sample Input 0**

76.78

16

2

3

**Sample Output 0**

76

77

4

8

**CODING :**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

float f = s.nextFloat();

double i = s.nextDouble();

double n = s.nextDouble();

double t = s.nextDouble();

int m = (int)Math.floor(f);

int v = (int)Math.ceil(f);

int c = (int)Math.sqrt(i);

int x = (int)Math.pow(n,t);

System.out.println(m);

System.out.println(v);

System.out.println(c);

System.out.println(x);

}

}

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**PROBLEM 6 :**

**Float Formation 1**

Alexa wants to know how the decimal digits are working in programming.can you please guide her to working on decimal digit.

**Input Format**

Input corresponds to the Float Value.

**Constraints**

No Constraints

**Output Format**

Output Corresponds to the Decimal Digit values.

**Sample Input 0**

67.98

**Sample Output 0**

67.980003

67.9800

67.98

68

**Sample Input 1**

12.34

**Sample Output 1**

12.340000

12.3400

12.34

12

**CODING :**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner (System.in);

float a = s.nextFloat();

System.out.printf("%.6f\n",a);

System.out.printf("%.4f\n",a);

System.out.printf("%.2f\n",a);

System.out.printf("%.0f\n",a);

}

}

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**PROBLEM 7 :**

**THREE IDIOTS 2**

Ajay, Binoy and Chandru were very close friends at school. They were very good in Mathematics and they were the pet students of Emily Mam. Their gang was known as 3-idiots. Ajay, Binoy and Chandru live in the same locality.

A new student Dinesh joins their class and he wanted to be friends with them. He asked Binoy about his house address. Binoy wanted to test Dinesh's mathematical skills. Binoy told Dinesh that his house is at the midpoint of the line joining Ajay's house and Chandru's house. Dinesh was puzzled. Can you help Dinesh out?

Given the coordinates of the 2 end points of a line (x1,y1) and (x2,y2), write a program to find the midpoint of the line.

**Input Format**

Input consists of 4 integers.

The first integer corresponds and the second integer corresponds to x1 and y1.

The third and fouth integers correspond to x2 and y2 respectively.

**Constraints**

No Constraints

**Output Format**

Refer Sample Input and Output for exact formatting specifications.

**Sample Input 0**

6

5

3

8

**Sample Output 0**

Binoy's house is located at (4.5,6.5)

**Sample Input 1**

5

9

8

7

**Sample Output 1**

Binoy's house is located at (6.5,8.0)

**CODING :**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

Float a = s.nextFloat();

Float b = s.nextFloat();

Float c = s.nextFloat();

Float d = s.nextFloat();

Float e = (a+c)/2;

Float f = (b+d)/2;

System.out.println("Binoy's house is located at ("+e+","+f+")");

}

}

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**PROFIT CALCULATOR 1**

**PROBLEM 8:**

Each Sunday, a newspaper agency sells x copies of a certain newspaper for Rs.a per copy. The cost to the agency of each newspaper is Rs.b . The agency pays a fixed cost for storage, delivery and so on of Rs.100 per Sunday. The newspaper agency wants to calculate the profit obtained on sundays. Can you please help them out by writing a C program to compute the profit given x, a and b.

**Input Format**

Input consists of 3 integers --- x, a and b. X is the number of copies sold, a is the cost per copy and b is the cost the agency spends per copy.

**Constraints**

No Constraints

**Output Format**

Refer Sample Input and Output for exact formatting specifications.

**Sample Input 0**

1000

2

1

**Sample Output 0**

Number of copies sold:1000

Cost of each copy:2

Cost spent by agency on each newspaper:1

The profit obtained is Rs.900.00

**Sample Input 1**

2000

3

1

**Sample Output 1**

Number of copies sold:2000

Cost of each copy:3

Cost spent by agency on each newspaper:1

The profit obtained is Rs.3900.00

**Sample Input 2**

10000

4

2

**Sample Output 2**

Number of copies sold:10000

Cost of each copy:4

Cost spent by agency on each newspaper:2

The profit obtained is Rs.19900.00

**CODING:**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int x = s.nextInt();

int y = s.nextInt();

int z = s.nextInt();

double r = (double)(x\*y)-(double)(x\*z) - 100;

System.out.println("Number of copies sold:"+x);

System.out.println("Cost of each copy:"+y);

System.out.println("Cost spent by agency on each newspaper:"+z);

System.out.printf("The profit obtained is Rs.%.2f\n",r);

}

}

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**PROBLEM 9:**

**Alice in wonderland 6**

Alice was bored that day,so she was sitting on the riverbank .Suddenly she notices a talking, White Rabbit with a pocket watch .It ran fast,and she followed it, down a rabbit hole .She fell into the hole and found a magical wonderland with dark trees, beautiful flowers.She found many ways numbered from 1,2,3,........18.she was confused which is the right way that will lead her to her home. She found a cute bird, standing in one of the tree. Alice asked the bird the way to go back to her home.The bird said a two digit number( say 23 ) and asked her to find the sum of its digits (2+3=5) and that numbered way will lead her to her home.Alice was already confused, so pls help Alice in finding the route to her home....

**Input Format**

Input consists of an integer corresponding to the 2-digit number.

**Constraints**

No Constraints

**Output Format**

Output consists of an integer corresponding to the sum of its digits. Refer sample input and output for formatting specifications.

**Sample Input 0**

23

**Sample Output 0**

Bird said:23

Alice must go in path-5

**Sample Input 1**

78

**Sample Output 1**

Bird said:78

Alice must go in path-15

**CODING :**

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int a = s.nextInt();

System.out.println("Bird said:"+a);

int sum=0,temp=a;

if (temp>0){

sum += temp%10;

temp =temp/10;

int b = sum+temp;

System.out.println("Alice must go in path-"+b);

}

}

}

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**PROBLEM 10:**

**Area and Perimeter of Triangle. 1**

Vihaan wants to know how to find the area and perimeter of the triangle.could you please the help him to find it and implements in programming. \*\* 1. Area of triangle:-1/2\*b\*h 2. Perimeter of triangle:- sum of threeside.\*\*

**Input Format**

input consist of 5 integer First and second input corresponds to base and height. Third , Fourth and fifth are side of the triangle

**Constraints**

No Constraints

**Output Format**

print the area and perimeter of the triangle.

**Sample Input 0**

5

6

1

2

3

**Sample Output 0**

Area of Triangle is 15.00

Perimeter of Triangle is 6.00

**Sample Input 1**

12

6

5

12

13

**Sample Output 1**

Area of Triangle is 36.00

Perimeter of Triangle is 30.00

**CODING :**

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int a = s.nextInt();

int b = s.nextInt();

int c = s.nextInt();

int e = s.nextInt();

int d = s.nextInt();

double area = 0.5 \* a \* b;

double peri = c + e + d;

System.out.printf("Area of Triangle is %.2f%n", area);

System.out.printf("Perimeter of Triangle is %.2f%n", peri);

}

}

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**PROBLEM 11:**

**Time 24**

On one fine Sunday, Sita and Radha decided to solve puzzles. Sita asked Radha to solve her puzzle. Sita gave the puzzle on time. She gave Radha the number of hours, number of minutes and number of seconds as input. With the given input, Radha should find out the total number of hours, the total number of minutes and the total number of seconds. Help Radha by writing a program for this. For example, the input given by Sita is 1, 70, 5. Now, 70 minutes is equal to 1 hour 10 minutes. So the output will be Total number of hour(s) is 2 Total number of minutes is 10 Total number of seconds is 5

**Input Format**

Input consists of three integers. First input corresponds to the number of hours. Second input corresponds to the number of minutes. Third input corresponds to the number of seconds.

**Constraints**

No constraints

**Output Format**

Execute the Time, Minutes and Second

**Sample Input 0**

1

15

10

**Sample Output 0**

Total Number of hours is 1

Total Number of minutes is 15

Total Number of seconds is 10

**Sample Input 1**

5

239

39

**Sample Output 1**

Total Number of hours is 8

Total Number of minutes is 59

Total Number of seconds is 39

**CODING:**

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int hours = sc.nextInt();

int minutes = sc.nextInt();

int seconds = sc.nextInt();

minutes += seconds / 60;

seconds = seconds % 60;

hours += minutes / 60;

minutes = minutes % 60;

System.out.println("Total Number of hours is " + hours);

System.out.println("Total Number of minutes is " + minutes);

System.out.println("Total Number of seconds is " + seconds);

}

}