IRC_Java_D1_Java Basics_PAH_COD

Test Summary

No. of Sections: 1No. of Questions: 10Total Duration: 120 min

Section 1 - Coding

Section Summary

No. of Questions: 10Duration: 120 min

Additional Instructions:

None

Q1. **Problem Statement:**

Write a java program to convert the integer data type to float data type.

Input Format

Input consists of integer value

Output Format

output consists of float value

Sample Input Sample Output

5.0

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q2. Number of events

"Pine Tree" Company has signed up a big time Event Management deal from the Rotary Youth Club for a Trade Fair organized at Codissia Complex, wherein all startup companies in the Software industry are demonstrating their latest products and services and meet with industry partners and Customers.

Amphi Event Management System has to be modified to write a piece of code that will get the input of the number of events to be hosted for the Fair at Codissia from its users and display the same. Help the company to accomplish the requirement.

Input Format

First line of the input is an integer that corresponds to the number of events to be hosted at Codissia.

Output Format

Output should display the number of events to be hosted at Codissia.

Sample Input Sample Output

| 50 | Number of events hosted in Codissia is 50 |
|----|-------------------------------------------|
| | |

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q3. Customized Welcome Message

Nikhil, the founder of "Pine Tree" company wished to design an Event Management System that would let its Customers plan and host events seamlessly via an online platform.

As a part of this requirement, Nikhil wanted to write a piece of code for his company's Examly Event Management System that will display customized welcome messages by taking Customers' name as input. Help Nikhil on the task.

Input Format

First line of the input is a string that corresponds to a Customer's name.

Output Format

Output should display the welcome message along with the Customer's name.

Sample Input Sample Output

| Harry Potter | Hello Harry Potter ! Welcome to Examly Event Managemen |
|--------------|--------------------------------------------------------|
| | |

Sample Input Sample Output

| Jarvis | Hello Jarvis ! Welcome to Examly Event Management Syst |
|--------|--------------------------------------------------------|
| | |

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q4. Total Expenses for the Event

The prime functionality of an Event Management System is budgeting. An Event Management System should estimate the total expenses incurred by an event and the percentage rate of each of the expenses involved in planning and executing an event. Nikhil, the founder of "Pine Tree" wanted to include this functionality in his company's Amphi Event Management System and requested your help in writing a program for the same.

The program should get the branding expenses, travel expenses, food expenses and logistics expenses as input from the user and calculate the total expenses for an event and the percentage rate of each of these expenses.

Input Format

First input is a double value that corresponds to the branding expenses.

Second input is a double value that corresponds to the travel expenses.

Third input is a double value that corresponds to the food expenses.

Fourth input is a double value that corresponds to the logistics expenses.

Output Format

First line of the output should display the double value that corresponds to the total expenses for the Event.

Next four lines should display the percentage rate of each of the expenses.

Round off the output to two decimal digits.

Sample Input Sample Output

| 20000 | Total expenses : Rs.100000.00 |
|-------|---------------------------------------|
| 40000 | Branding expenses percentage : 20.00% |
| 15000 | Travel expenses percentage : 40.00% |
| 25000 | Food expenses persontage : 15 00% |

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q5. **Problem statement:**

Write a program that accepts a sentence as input and prints the same.

Input Format

The input consists of a sentence.

Output Format

The output prints the sentence.

Sample Input Sample Output



Time Limit: 10 ms Memory Limit: 256 kb Code Size: 1024 kb

Q6. **Problem statement:**

Write a Java program to convert minutes into a number of years and days

The input consists number of minutes **Output Format** The output prints year and days **Sample Output** Sample Input 456789

456789 minutes is approximately 0 years and 317 days

Sample Input

Sample Output

785342

785342 minutes is approximately 1 years and 180 days

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q7. **Problem statement:**

Write a program to print the size of int, float, double, and char.

Input Format

No console input.

Output Format

The output prints the size of each data type.

Sample Input

Size of int: 4 bytes. Size of float: 4 bytes. Size of double: 8 bytes. Circ of chan. 2 hutos

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q8. **Problem statement:**

Welcome Message

"Pine Tree" is a recently launched startup Event Management company. The company gained a good reputation within a short span because of its highly reliable service delivery.

Sample Output

Nikhil, the founder of this company wished to take the company's services to the next step and decided to design an Event Management System that would let its Customers plan and host events seamlessly via an online platform. As a part of this requirement, Nikhil wanted to write a piece of code for his company's Proton Event Management System that will welcome all the Customers who are using it. Help Nikhil on the task.

Output Format

The output should display "Welcome to Proton Event Management System". Refer sample output for formatting specifications.

Sample Input Sample Output

Welcome to Proton Event Management System

Time Limit: 10 ms Memory Limit: 256 kb Code Size: 1024 kb

Q9. **Problem statement:**

Write a program to print the ASCII value of a given character.

Input Format

The input consists of a character.

Output Format

The output prints the ASCII value.

Sample Input **Sample Output**

| k | | 107 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|
| Sample Input Sample Output | | |
| U | | 85 |
| Time Limit: - ms Memory Limit: - kb Code Size: - kb | | |
| Q10. Problem statement: Write a simple code by declaring three variables where two variables of integer type and one variable is float. Add the two integer variables and store the result in the remaining variable(float). | | |
| Input Format | | |

In

Input to get two values n1 and n2 separated by a single space.

Output Format

Display the result in double.

Sample Output Sample Input

| 10 20 | 30.00 |
|-------|-------|
| | |

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q1 Test Case

Input Output

26.0

Weightage - 100

Sample Input Sample Output

5

Solution

```
import java.util.*;
class Main
{
    public static void main(String args[])
    {
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        System.out.print((float)n);
    }
}
```

Q2 Test Case

Input Output

Number of events hosted in Codissia is 30

Weightage - 100

Sample Input Sample Output

```
Number of events hosted in Codissia is 50
```

Solution

```
import java.util.*;
import java.io.*;
class Main {
    public static void main(String [] args) {
        int number;
        Scanner sc = new Scanner(System.in);
        number = sc.nextInt();
        System.out.println("Number of events hosted in Codissia is " +number);
```

}

Q3

Test Case

Input Output

Benny

Hello Benny ! Welcome to Examly Event Management

Weightage - 50

Input Output

Hermoine Granger

Hello Hermoine Granger! Welcome to Examly Event I

Weightage - 50

Sample Input Sample Output

Harry Potter ! Welcome to Examly Event Mana;

Sample Input Sample Output

Jarvis ! Welcome to Examly Event Management

Solution

Solution 1

Main.java

```
import java.util.*;
class Main {
    public static void main(String [] args) {
        String name;
        Scanner sc= new Scanner(System.in);
        name = sc.nextLine();
        System.out.println("Hello "+name+ " ! Welcome to Examly Event Management System");
    }
}
```

Q4 Test Case

Input Output

20000 40000 15000

Total expenses: Rs.100000.00

Branding expenses percentage: 20.00%

Travel expenses percentage: 40.00%

Sample Input

Sample Output

```
Total expenses: Rs.100000.00

40000
Branding expenses percentage: 20.00%
Travel expenses percentage: 40.00%

Food expenses percentage: 15.00%
```

Solution

```
import java.util.*;
import java.io.*;
import java.math.*;
import java.text.*;
class Main {
   public static void main(String [] args) {
       double branding,travel,food,logistics,sum = 0.00;
       DecimalFormat d = new DecimalFormat("0.00");
       Scanner sc=new Scanner(System.in);
       branding = sc.nextDouble();
       travel = sc.nextDouble();
       food = sc.nextDouble();
       logistics = sc.nextDouble();
       sum = branding+travel+food+logistics;
       System.out.println("Total expenses : Rs." +d.format(sum));
       System.out.println("Branding expenses percentage : " +d.format((branding/sum)*100) +"%");
       System.out.println("Travel expenses percentage : "+d.format((travel/sum)*100) +"%");
       System.out.println("Food expenses percentage : "+d.format((food/sum)*100) +"%");
       System.out.println("Logistics expenses percentage : "+d.format((logistics/sum)*100) +"%");
```

Q5 Test Case

Input Output

make life ridiculously amazing make life ridiculously amazing

Weightage - 20

Input Output

live laugh love

Weightage - 20

Input Output

work for it

```
Output
 Input
   never work for it
                                                            never work for it
 Weightage - 20
                                                         Output
 Input
                                                            actions are priceless
   actions are priceless
 Weightage - 20
 Sample Input
                                                         Sample Output
                                                            make life ridiculously amazing
   make life ridiculously amazing
 Solution
    import java.util.*;
    class Main
        public static void main(String args[])
            Scanner s=new Scanner(System.in);
            String str;
            str=s.nextLine();
            System.out.println(str);
Q6
        Test Case
        Input
                                                               Output
                                                                  4578234 minutes is approximately 8 years and 259
          4578234
        Weightage - 50
                                                               Output
        Input
                                                                  783456 minutes is approximately 1 years and 179 d
          783456
        Weightage - 50
                                                               Sample Output
        Sample Input
```

456789

456789 minutes is approximately 0 years and 317 d

Sample Input

Sample Output

```
785342 minutes is approximately 1 years and 180 da
```

Solution

```
import java.util.Scanner;
public class Main {
    public static void main(String[] Strings) {
        double minutesInYear = 60 * 24 * 365;
        Scanner input = new Scanner(System.in);
        double min = input.nextDouble();
        long years = (long) (min / minutesInYear);
        int days = (int) (min / 60 / 24) % 365;
        System.out.println((int) min + " minutes is approximately " + years + " years and " + days + " days");
    }
}
```

Q7 Test Case

Input Output

```
Size of int: 4 bytes.
Size of float: 4 bytes.
Size of double: 8 bytes.
```

Weightage - 100

Sample Input

Sample Output

```
Size of int: 4 bytes.
Size of float: 4 bytes.
Size of double: 8 bytes.
```

Solution

Header

```
import java.util.*;
class Main
{
   public static void main(String args[])
   {

      System.out.println("Size of int: " + (Integer.SIZE/8) + " bytes.");
      System.out.println("Size of float: " + (Float.SIZE/8) + " bytes.");
      System.out.println("Size of double: " + (Double.SIZE/8) + " bytes.");
      System.out.println("Size of char: " + (Character.SIZE/8) + " bytes.");
```

Footer

```
Test Case
Input
                                                        Output
                                                           Welcome to Proton Event Management System
Weightage - 100
Sample Input
                                                        Sample Output
                                                           Welcome to Proton Event Management System
Solution
   import java.util.*;
   class Main
   {
       public static void main(String args[])
           System.out.println("Welcome to Proton Event Management System");
   }
Test Case
Input
                                                        Output
  L
                                                           76
Weightage - 25
Input
                                                        Output
  Α
                                                           65
Weightage - 25
Input
                                                        Output
                                                           97
  а
```

Q8

Q9

```
Input
                                                           Output
   е
                                                              101
 Weightage - 25
 Sample Input
                                                           Sample Output
    k
                                                              107
 Sample Input
                                                           Sample Output
   U
                                                              85
 Solution
    import java.util.*;
    class Main
         public static void main(String args[])
             char c;
             Scanner s = new Scanner(System.in);
             c=s.next().charAt(0);
             int asciiValue = c;
             System.out.println(asciiValue);
Q10
        Test Case
        Input
                                                                 Output
          32 42
                                                                    74.00
        Weightage - 25
                                                                 Output
        Input
          88 44
                                                                    132.00
        Weightage - 25
                                                                 Output
        Input
          846 888
                                                                    1734.00
```

Input Output

```
76.00
```

Sample Output

Weightage - 25

Sample Input

```
30.00
```

10 20

```
Solution
```

```
import java.util.*;
class Main
{
    public static void main(String args[])
    {
        Scanner s = new Scanner(System.in);
        int n1,n2;
        float sum=0;
        n1=s.nextInt();
        n2=s.nextInt();
        sum = (float)n1+(float)n2;
        System.out.printf("%.2f",sum);
}
}
```