

# Rajalakshmi Engineering College

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## NeoColab\_REC\_CS23221\_Python Programming

### REC\_Python\_Week 1\_CY

Attempt : 1  
Total Mark : 40  
Marks Obtained : 40

### Section 1 : Coding

#### 1. Problem Statement

Olivia is creating a wellness dashboard for her new fitness app, FitTrack. She needs a program that can capture and display key details about a user's workout. The program should read the user's full name, the total steps they ran, the energy they expended in kilojoules, and the duration of their workout in hours. After collecting this information, the program will generate a detailed summary of the user's fitness activity.

Your task is to guide Olivia through the program.

#### ***Input Format***

The first line of input consists of a string, representing the user's name.

The second line consists of an integer, representing the total steps taken.

The third line consists of a float value, representing the calories burned.

The fourth line consists of a float value, representing the workout duration in hours.

### ***Output Format***

The first line of output prints "User Name: " followed by the user's name.

The second line prints "Total Steps: " followed by the total steps.

The third line prints "Calories Burned: " followed by the calories burned, rounded off to one decimal place.

The fourth line prints "Workout Duration: X hours" where X is the workout duration, rounded off to one decimal place.

Refer to the sample output for formatting specifications.

### ***Sample Test Case***

Input: Alex

10000

350.5

1.5

Output: User Name: Alex

Total Steps: 10000

Calories Burned: 350.5

Workout Duration: 1.5 hours

### ***Answer***

# You are using Python

```
n=input()
```

```
s=input()
```

```
c=input()
```

```
d=input()
```

```
print("User Name: ",n)
```

```
print("Total Steps: ",s)
```

```
print("Calories Burned: ",c)
```

```
print("Workout Duration: ",d,"hours")
```

Status : Correct

Marks : 10/10

## 2. Problem Statement

John is developing a financial application to help users manage their investment portfolios. As part of the application, he needs to write a program that receives the portfolio's main value and the values of two specific investments as inputs. The program should then display these values in reverse order for clear visualization.

Help John achieve this functionality by writing the required program.

### **Input Format**

The first line of input consists of a float, representing the first investment value.

The second line of input consists of a float, representing the second investment value.

The third line of input consists of an integer, representing the portfolio ID.

### **Output Format**

The first line of output prints "The values in the reverse order:".

The second line prints the integer, representing the portfolio ID.

The third line prints the second float, representing the second investment value.

The fourth line prints the first float, representing the first investment value.

Refer to the sample output for the formatting specifications.

### **Sample Test Case**

Input: 35.29

9374.11

48

Output: The values in the reverse order:

48  
9374.11  
35.29

**Answer**

```
# You are using Python
f=input()
s=input()
t=input()
print("The values in the reverse order:")
print(t)
print(s)
print(f)
```

**Status :** Correct

**Marks :** 10/10

### 3. Problem Statement

Liam and his friends are sharing the cost of a group purchase. The total cost of the purchase is subject to a 10% discount. One of the friends receives a 35% bonus, which means they will pay a larger portion of the discounted cost. The remaining cost is then divided equally among the other friends.

Write a program to:

Calculate the total cost after applying a 10% discount. Determine the amount paid by the friend who receives a 35% bonus. Calculate the amount each of the other friends will pay.

**Input Format**

The first line of input consists of a float value  $f$ , representing the total cost.

The second line contains an integer value  $n$ , representing the total number of friends.

**Output Format**

The first line of output displays "Cost after a 10% discount:" followed by the discounted cost of the ticket package as a float value formatted to two decimal places.

The second line displays "Friend with a 35% bonus pays: " followed by the amount paid by the friend with the bonus as a float value formatted to two decimal places.

The third line displays "Each of the other friends pays: " followed by the individual share of the remaining cost as a float value formatted to two decimal places.

Refer to the sample output for the formatting specifications.

### **Sample Test Case**

Input: 10000.0

5

Output: Cost after a 10% discount: 9000.00

Friend with a 35% bonus pays: 3150.00

Each of the other friends pays: 1462.50

### **Answer**

# You are using Python

```
a=float(input())
```

```
f=int(input())
```

```
o=a*(10/100)
```

```
c=a-o
```

```
b=c*(35/100)
```

```
e=(c-b)/(f-1)
```

```
print("Cost after a 10% discount: ", "%.2f"%c)
```

```
print("Friend with a 35% bonus pays:", "%.2f"%b)
```

```
print("Each of the other friends pays:", "%.2f"%e)
```

**Status :** Correct

**Marks :** 10/10

## **4. Problem Statement**

Alex is an air traffic controller who needs to record and manage flight delays efficiently. Given a flight number, the delay in minutes (as a string), and the coordinates of the flight's current position (as a complex number),

Help Alex convert and store this information in a structured format.

### **Input Format**

The first line of input consists of an integer N, representing the flight number.

The second line consists of a string representing the delay in minutes.

The third line consists of two floats separated by a space, representing the real and imaginary parts of the complex number for the flight's position.

### **Output Format**

The first line of output displays the complex number.

The second line displays a string with the flight number, delay, and the real and imaginary parts of the complex number, separated by commas.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 12345

30.5

12.3 45.6

Output: (12.3+45.6j)

12345, 30.5, 12.3, 45.6

### **Answer**

```
# You are using Python
n=input()
d=input()
r,i=map(float,input().split())
```

```
print('(' + r + 'j' + 'if i>0else",i,j')')
print(n,',',d,',',r,',',i)
```

**Status :** Correct

**Marks :** 10/10