Basic Python Programming

Problem sets

Problem 1:

Write a Python program that takes a list of student scores as input, then classifies each student into one of the following categories based on their score:

- **Gold Medal**: Score above 90

- **Silver Medal**: Score between 80 and 90 (inclusive)

- **Bronze Medal**: Score between 70 and 80 (inclusive)

- **Participation Award**: Score below 70

The program should then print the total count of students in each category.

Sample input:

```
students = [95, 87, 72, 68, 91]
```

Sample Output:

```
Gold Medal: 2 students

Silver Medal: 1 student

Bronze Medal: 1 student

Participation Award: 1 student
```

Problem 2:

Write a Python program that takes a **name** and a **token number** from a person as input and classifies their seat confirmation status for a training session based on the token number they provide:

- If the number is **odd**, they get **admission**. *[{name}: your seat is confirmed]*

- If the number is **even**, they are placed on the **waiting list**. *[{name}: you are in waiting list]*

- If the number is **zero**, they **don't get a seat**. [*Sorry! {name}: No seat available for you.]*

The program should print the **name** of the person along with their seat confirmation status.

Sample Input:

```
Enter name: Donald Trump

Enter your Token Number: 0
```

Sample Output

```
Sorry!Donald Trum: No seat available for you.
```

Bonus Question:

Write a Python program that simulates a simple calculator. The user should enter two numbers and an operator (+, -, *, /), and the program should print the result.

The program should:

1. Ask the user to input two numbers.

2. Ask the user to enter an operator (+, -, *, /).

3. Perform the corresponding operation based on the operator entered.

4. Print the result of the operation.

Sample Input:

```
Enter first number: 10

Enter second number: 5

Enter operator (+, -, *, /): +
```

Sample Output:

```
Sum of 10 and 5 is : 15
```