# Basic Python Problem Exam

# Time: 35 min

# Problem 1:

**Question:**

Write a Python program that takes the names and marks of n students and stores them in a dictionary. Then, write a function to calculate and print the average marks of the class. Also, print the name(s) of the student(s) who scored the highest marks.

**Requirements:**

* Use dictionary for student data.
* Use functions and loops.

**Input:**

Enter number of students: 3

Enter name of student 1: Rahim

Enter marks of Alice: 85

Enter name of student 2: Arnob

Enter marks of Bob: 92

Enter name of student 3: Karim

Enter marks of Charlie: 92

**Output:**

Average Marks: 89.67

Top Scorer(s): Arnob, Karim

# Problem 2:

**Question:**

Write a function that takes a list of integers as input and returns a tuple of two lists:

* The first list contains all even numbers in ascending order.
* The second list contains all odd numbers in descending order.

**Requirements:**

* Use list, tuple, loops, functions.

**Input:**

Enter numbers separated by space: 12 5 7 2 8 9 3

**Output:**

Even Numbers (Ascending): [2, 8, 12]

Odd Numbers (Descending): [9, 7, 5, 3]

Result Tuple: ([2, 8, 12], [9, 7, 5, 3])