

KING SAUD UNIVERSITY COLLEGE OF COMPUTER AND INFORMATION SCIENCES Computer Science Department	
CSC 111 Computer Programming - I	Lab # 6 for/while Loops, Repeat-Until, and Comprehensive Practice

Sunday: Student Score Analyzer

Write a Python program that asks the user to enter the scores of 5 students. The program should:

- Calculate and display the average score.
- Count and display the number of students who passed (score ≥ 60).

Sample Run:

```
Enter student score: 55
Enter student score: 99
Enter student score: 85
Enter student score: 66
Enter student score: 40
Average score: 69.0
Number of students passed: 3
```

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Monday: Shopping Cart

Write a Python program that repeatedly asks the user to enter the price of an item. The program should continue until the user enters 0.

The program should:

- Calculate and display the total cost.
- Count and display the number of items.
- Count and display how many items cost more than 100.

Sample Run:

```
Enter item price (0 to stop): 44
Enter item price (0 to stop): 60
Enter item price (0 to stop): 15
Enter item price (0 to stop): 110
Enter item price (0 to stop): 0
Total cost: 229.0
Number of items: 4
Items costing more than 100: 1
```

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Tuesday: Movie Ticket Calculator

Write a Python program that asks the user to enter the age of 5 customers. The program should:

- Calculate and display the total number of customers.
- Count and display how many customers are adults (age ≥ 18).
- Calculate and display the average age of the customers.

Sample Run:

```
Enter customer age: 25
Enter customer age: 36
Enter customer age: 11
Enter customer age: 16
Enter customer age: 42
Total number of customers: 5
Number of adults: 3
Average age: 26.0
```

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Wednesday: Daily Temperature

Write a Python program that asks the user to enter the temperature for 7 days. The program should:

- Calculate and display the average temperature.
- Calculate and display the total number of days with a temperature above 30°C.
- Count and display the number of days with a temperature below 20°C.

Sample Run:

```
Enter temperature: 66
Enter temperature: 75
Enter temperature: 25
Enter temperature: 15
Enter temperature: 33
Enter temperature: 90
Enter temperature: 44
Average temperature: 49.714285714285715
Days above 30°C: 5
Days below 20°C: 1
```

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Thursday: Sales Calculator

Write a Python program that repeatedly asks the user to enter the sales amount for an item. The program should continue until the user enters 0.

The program should:

- Calculate and display the total sales.
- Count and display the number of items sold.
- Count and display how many sales amounts were greater than 500.

Sample Run:

```
Enter sales amount (0 to stop): 150
Enter sales amount (0 to stop): 270
Enter sales amount (0 to stop): 720
Enter sales amount (0 to stop): 800
Enter sales amount (0 to stop): 33
Enter sales amount (0 to stop): 490
Enter sales amount (0 to stop): 0
Total sales: 2463.0
Number of items sold: 6
Sales greater than 500: 2
```