

## **Lab Task Conditional Statements**

### Question 1:

Take values of length and breadth of a rectangle from the user and check if it is square or not.

### Question 2:

A shop will give a discount of 10% if the cost of the purchased quantity is more than 1000.

Ask the user for the quantity. Suppose, one unit will cost 100. Judge and print total cost for user.

### Question 3:

A school has following rules for grading system:

- a. Below 25 - F
- b. 25 to 45 - E
- c. 45 to 50 - D
- d. 50 to 60 - C
- e. 60 to 80 - B
- f. Above 80 - A

Ask the user to enter marks and print the corresponding grade.

### Question 4:

A student will not be allowed to sit in an exam if his/her attendance is less than 75%.

Take following input from user:

- Number of classes held
- Number of classes attended.

And print:

- The percentage of class attended
- Whether the student is allowed to sit in the exam or not.

### Question 5:

Write a Python Function to check whether an alphabet is a vowel or consonant. Your program should ask the user to input an alphabet.

VOWELS are (A,E,I,O,U)

### Question 6:

Write a Python Function to check if a triangle is equilateral, isosceles or scalene. Your program should ask the user to input x,y,z values

Note :

- An equilateral triangle is a triangle in which all three sides are equal.
- A scalene triangle is a triangle that has three unequal sides.
- An isosceles triangle is a triangle with (at least) two equal sides.