

# ASSIGNMENT 2

## CONDITIONAL STATEMENTS

### NOTE:

- No need to submit anywhere, just keep track of all the PDF you made in a specific folder.
- Compare your solution with the solution I'll provide, in case of doubts, kindly reach out to me.
- You may get assignment solution in format of PDF or VIDEO solution, depending on the difficulty level.

**Q1.** Write a program that takes two numbers as input and checks if the first number is divisible by the second.

**Q2.** A student will not be allowed to sit in exam if his/her attendance is less than 75%.

Take following input from user

- Number of classes held
- Number of classes attended.

1. Print percentage of class attended
2. Print Is student is allowed to sit in exam or not.

**Q3.** Write a program to check if number is divisible by 2 and 3 but not 8.

**Q4.** Write a Python program that takes a student's score as input and prints the corresponding grade. Use the following grading scale:

A: 90-100

B: 80-89

C: 70-79

D: 60-69

F: Below 60

**Q5.** Write a program to calculate bill. Ask the final amount from the user.

You have to give discount and print the final bill after discount.

50000 above - 30% discount

40000 - 49999 - 25% discount

30000 - 39999 - 20% discount

10000 - 29999 - 10% discount

1 - 9999 - No discount

Print the discount and the final amount to be paid.

### **Example 1**

Enter bill amount = 80000

You got 30% discount

Your final bill is Rs. 56000

**Q6.** Ask 4 numbers from user. Make sure all the numbers entered by user are different. Print which number is the smallest.

**Q7.** Take Salary as input from User and Update the salary of an employee.

- salary less than 10,000, 5 % increment
- salary between 10,000 and 20, 000, 10 % increment
- salary between 20,000 and 50,000, 15 % increment
- salary more than 50,000, 20 % increment

**Q8.** An extra day is added to the calendar almost every four years as February 29, and the day is called a leap day. A leap year contains a leap day.

These are the conditions used to identify leap years:

- if the year can be evenly divided by 4, it is then a leap year

- but if the year is evenly divided by 4 and also by 100, then it is NOT a leap year
- but if the year is evenly divided by 4 and also by 400, then it is a leap year

This means the years 2000 and 2400 are leap years, while 1800, 1900, 2100, 2200, 2300 and 2500 are NOT leap years.

Ask a year input from user. And tell if the year entered by user is leap or not.