Lab Assignment
Python Programming Lab (DSC2151)
3rd Semester, CSE(AIML) (Group 1), HITK
Day 1: Variable, Operator and Expression

1) Write a program that asks the user for his name and then welcomes him. The output should look like this:
   Enter your name: Kumar
   Hello Kumar

2) Write a program to take day, month, and year as input. Display the output as day/month/year and day.month.year
   Example:
   Enter day: 16
   Enter month: 7
   Enter year: 2024
   Date is: 16/7/2024
   Date is: 16.7.2024

3) Write a program that prompts the user to enter two integers and display their sum on the screen.

4) Create a variable "ap" and accept "apple price" from user, then print user's apple price "ap" , its datatype and its memory location, then next reassign apple price to 34, again print apple price and its memory location, finally delete variable "ap" and try to print ap. Hint: Final Output will be like below
   NameError: name 'ap' is not defined

5) Write a python program to swap two numbers.

6) Write a program that prompts the user to input a Celsius temperature and outputs the equivalent temperature in Fahrenheit.
   The formula to convert the temperature is:
   C/5=(F-32)/9
   Or, F = 9/5 C + 32
   Or, F=(9C+160)/5
   where F is the Fahrenheit temperature and C is the Celsius temperature.

7) Write a program which accepts principal, rate and time(in years) from the user and prints the simple interest.
   The formula to calculate simple interest is:

simple interest = principal x rate x time / 100

8) Write a program that accepts seconds from keyboard as integer. Your program should convert seconds in hours, minutes and seconds. Your output should like this :

Enter seconds: 13400
Hours: 3
Minutes=43
Seconds=20

9) Write a Python Program to calculate arithmetic operations on two numbers. That is, create a calculator that will take two numbers (example 5 and 2) and input. It will calculate the results of the following arithmetic operations:
+, -, *, /, %, //, **

10) Write a Python Program to calculate the area and circumference of a circle. Take the radius as an input from the user.
Area = pi x $radius^2$
Circumference = 2 x pi x radius