



Lab 2: Python variables and user input

Objective(s)

- Write Python programs using different data types.
- Write Python programs to read Input from the keyboard.

Tool(s)/Software

- Pycharm
or
- IDLE(Python 3.10 or above)
or
- <https://www.online-python.com/>

Description

- Write python programs that solve the following problems:

Tasks/Assignments(s):

Q1:

Write a python program which calculates and prints the Area and the Perimeter of a Rectangle. The values of height and width are given by the user.

Q2:

Write a Python program to calculate and print Simple Interest of loan (SI). The values of Principal Amount (PA), Rate of Interest (RI) and Number of years (NY) are entered by the user.

Hint: $SI = (PA * RI * NY) / 100$

Q3:

Write a Python program to calculate and print the sum of two integers given by the user.

Q4:

Write a Python program to calculate and print the average of three floats given by the user.



Q5:

Write a Python program to print the square of the third element of the following list:
L=[4,7,2,8]

Q6:

1. Write a Python program to concatenate 2 lists L1 and L2 into L3:

L1 = ['Red', 'Blue', 'Green']

L2=['Black', 'White', 'Yellow']

2. Add the color Brown to L3 and sort L3.

3. Print L3.

Q7:

Write a Python program to swap the first and last element of this list:

L = ["Python", "Java", "C ++", "Javascript"]

Expected output:

['Python', 'Java', 'C ++', 'Javascript']

Q8:

A supermarket sells the following fruits:

Name	Price
Apple	34
Banana	12
Orange	28
Peach	40

1. Create a dictionary with **name:price** pairs.
2. Print the dictionary.
3. The supermarket stops selling bananas, delete it from the dictionary.
4. Print the dictionary.

Deliverables

- Submit the files via blackboard. If blackboard is not working, send an email.
- No submissions or late submissions are penalized (from participation marks).
- Name the document Python_Lab2_StudentName_Q#
- You need to submit 8 files.