

Silicon University
Skill Project Lab
Lab Assignment - 1(Basic Python Programs)

August 9, 2025

1. Write a Python program that will print your mailing address in the following form:
Name :
At/Plot No. :
Po.:
City:
Pin:
2. Write a python program by using a variable to represent a person's name, and print a message to that person. Your message should be simple, such as, "Hello Hari, would you like to learn some Python today?"
3. Write a Python program to print the following structure:

* College: Silicon *
* Address: Silicon Hills *
* Near DLF Building *
* Patia *
* Bhubaneswar *
* 751024 *

4. Write a Python program to enter two numbers and display their sum.
5. Write a Python program to enter two numbers and find their sum, difference, multiplication, and division display the output in the following format:
Enter two numbers
70 10
70 + 10 = 80
70 - 10 = 60
70 * 10 = 700
70 / 10 = 7
6. Write a Python program to find the area and perimeter of a rectangle when the length and breadth are given as input.
7. Write a Python program to enter the base and height of a triangle, then find the area of the triangle.

8. Write a Python program to find the volume of a cylinder when the radius and height of that cylinder are given as input.(Hint: $Volume = \pi r^2 h$)
9. Write a Python program to find the volume of a sphere when the radius of the sphere is given as input.(Hint: $Volume = \frac{4}{3}\pi r^3$)
10. Write a Python program to find the area and perimeter of a circle when the radius of the circle is given by the user.
11. Write a Python program to find the sum of the first n natural numbers when the value for n is given by the user as input.(Hint: $\frac{n(n+1)}{2}$)
12. Write a Python program to convert Fahrenheit to Celsius when the value of Fahrenheit is given as input.(Hint: $C = (F - 32) * \frac{5}{9}$)
13. Write a Python program to enter marks in 4 subjects of a student and find the percentage of marks assuming that the full mark of each subject is 100.
14. Write a Python program to enter the distance in centimeters and convert the distance into inches.
15. Write a Python program to find the simple interest when the principal amount, rate of interest, and time period are given.
16. Write a Python program to find the value of s using the formula $s = ut + \frac{1}{2}at^2$ when the values of u, t , and a are given as input.
17. Write a Python program to swap the values of 2 variables using the 3rd variable.
18. Write a Python program to swap the values of 2 variables without using the 3rd variable.
19. Write a Python program to calculate the gross salary of an employee by giving basic salary as input using the following formula.DA (60%) HRA(15%) Gross salary= Basic +DA + HRA.
20. Write a Python program to check if a character 'a' exists in the string "apple" using membership operators.