LAB1

1. [Determine the type of an object in Python](https://www.includehelp.com/python/determine-the-type-of-an-object.aspx)
2. [Python program for simple interest](https://www.includehelp.com/python/program-for-simple-interest.aspx)
3. Enter the rate of interest : 3.5
4. Enter the time in the years: 1
5. Principle amount: 10000.0
6. Interest rate : 3.5
7. Time in years : 1.0
8. Simple Interest : 350.0
9. 3. [Python program for compound interest](https://www.includehelp.com/python/program-for-compound-interest.aspx)

To calculate compound interest, we use the following formula,

**P(1 + R / 100)T**

Where,

* **P** – Principle amount
* **R** – Rate of the interest, and
* **T** – Time in the years

**Example:**

Input:

p = 250000

r = 36

t = 1

Output:

339999.99999999994

pattern printing programs in Python

**Pattern 1:**

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

**Pattern 2:**

1

1 1

1 1 1

1 1 1 1

1 1 1 1 1

**Pattern 3:**

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

**Pattern 4:**

1

2 3

4 5 6

7 8 9 10

11 12 13 14

**Pattern 5:**

A

A B

A B C

A B C D

A B C D E

### **Python code to find power of a number**

# Find largest of three number using nested if else

# Calculate discount based on the sale amount

The discount rates are:

Amount Discount

0-5000 5%

5000-15000 12%

15000-25000 20%

above 25000 30%

# BMI (Body Mass Index) calculator in Python

the BMI formula, which is weight/(height\*\*2).

BMI<16,”SEVERELY UNDER WEIGHT”

BMI>=16AND<18.5”UNDERWEIGHT”

BMI>=18.5AND<25”HEALTHY”

BMI>=25AND<30”OVERWEIGHT”

BMI>=3=,SERVERELY OVERWEIGHT

# Get the the volume of a sphere with radius 6

The volume of the sphere is : V = 4/3 × π × r3 = π × d3/6.

# Python Program for factorial of a number

# Python Program for Program to find area of a circle

# Python program to check whether a number is Prime or not

# Python Program for cube sum of first n natural numbers

celsius \* 1.8 = fahrenheit - 32

PALINDROME

# Program to sort alphabetically the words form a string provided by the user

VOWELCOUNT

Example of Ternary Operator

Design a simple calculator

Calculator

1.Add

2.Substract

3.Multiply

4.Divide

Enter Choice(1-4): 3

Enter A:10

Enter B:20

Product = 200