**Lab 1**

**Install Python on your PC, and then perform following tasks**

1. Execute followings, and evaluate the answer
2. >>>Age = 20
3. >>>Pi = 3.14
4. >>>Name = ‘Amit’
5. >>>Laptop@ = 1000000
6. >>>sirname = Sharma
7. >>>class = 'Advanced Theoretical Zymurgy'
8. >>>zipcode = 2492
9. >>>phone = 07542265
10. >>>76Street = ' for big parade’
11. Evaluate following expressions
12. >>>minute = 59
13. >>>minute/60
14. >>>17
15. >>>x
16. >>>x + 17
17. >>>miles = 26.2
18. >>>print miles \* 1.61
19. >>>print 1
20. >>>x = 2
21. >>>print x
22. >>>x + 1
23. Assume that we execute the following assignment statements:

width = 17

height = 12.0

delimiter = '.'

For each of the following expressions, write the value of the expression and the type (of the value of the expression).

1. width/2

2. width/2.0

3. height/3

4. 1 + 2 \* 5

5. delimiter \* 5

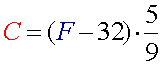
1. Verify the rules of precedence mathematical operators.
2. Calculate simple interest.
3. Calculate compound interest.



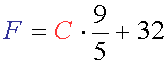
1. Find the value of force when mass of a body and its acceleration is given.

F = m \* a

1. Convert a temperature from Celsius to Fahrenheit.



1. Convert a temperature from Fahrenheit to Celsius.



1. Compute the area of circle, when its diameter is given.

A =

1. Compute the volume of a cylinder, when its height and diameter is given.

The volume **V** for a right circular cylinder with radius **r** and height **h** is given by the formula  
**V =  π r2 h**

1. Compute the surface area of a cylinder, when its height and diameter is given.

*A* = 2π*r*2 + 2π*rh*

1. Compute the area of a rectangular prism, when it’s all sides is given.

area = 2 · (h · d + h · w + d · w)

1. Compute the volume of a rectangular prism, when its all sides are given.

volume = h · d · w