Lab 2

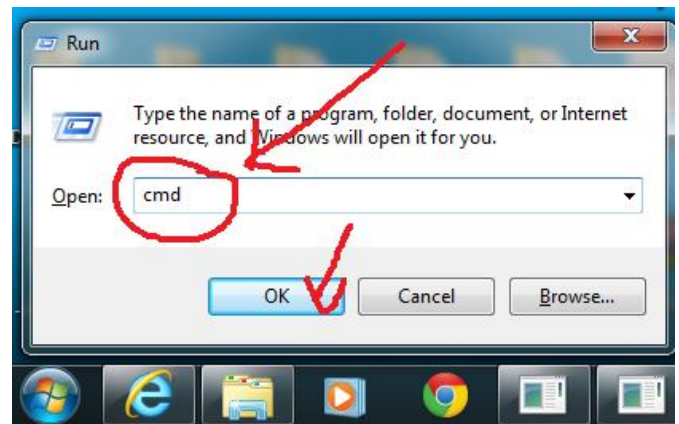Press ![Windows logo] and R together from keyboard to open Run Window.

Type cmd in the text box as shown in figure

Type "python" at the command-line to start the python interactive shell.

A. Execute followings, and evaluate the answer

1. >>>Age = 20
2. >>>Pi = 3.14
3. >>>Name = 'Amit'
4. >>>Laptop@ = 1000000
5. >>>sirname = Sharma
6. >>>class = 'Advanced Theoretical Zymurgy'
7. >>>zipcode = 2492
8. >>>phone = 07542265
9. >>>76Street = ' for big parade'

B. Evaluate following expressions
- I. >>>minute = 59
- II. >>>minute/60

- III. >>>17
- IV. >>>x
- V. >>>x + 17

- VI. >>>miles = 26.2
- VII. >>>print miles * 1.61

- VIII. >>>print 1
- IX. >>>x = 2
- X. >>>print x
- XI. >>>x + 1

C. 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

D. Verify the rules of precedence mathematical operators.

E. Calculate simple interest.

F. Calculate compound interest.

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

H. Convert a temperature from Celsius to Fahrenheit.

I. Convert a temperature from Fahrenheit to Celsius.

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

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

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

M. Compute the area of a rectangular prism, when its all sides are given.

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