**LAB-04**

**NOTE:**

* Each programme should be first written on paper and then on compiler.
* Adopt programming conventions (adopt identifier rules , use indentation etc)

**Q1**) Convert the following psuedocode to C++ code. Be sure to define appropriate variables:

Store 30 in the *speed* variable

Store 10 in the *time* variable

Multiply *speed* by *time* and store the result in *distance* variable.

Display the contents of the *distance* variable.

**Q2)** Write a programme that stores the floating point number 172.5 and 27.5 in variables named force and area, and stores the product of these two in a variable named *pressure.*

***Q3)*** Write a program that computes the tax and tip on a restaurant bill for a patron with a $44.75 meal charge. The tax should be 6.75 percent of the meal cost. The tip should be 15 percent of the total after adding the tax. Display the meal cost, tax amount, tip amount and total bill on the screen.

**Q4)** Write a program that stores the following values in five different variable 28, 32,37,24 and 33. The program should calculate the sum of these variables and store the result in separate variable named sum. Then program should divide sum variable by 5 to get the average. Display average on screen.

**Q5)** Write a program that displays the following pieces of information, each on separate line:

Your name

Your Degree your section

Your Department

Your university

Use single cout statement to do this.

**Q6)** Write a program that displays the following pattern on screen.

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**Q7)** One acre of land is equivalent to 43,560 square feet. Write a program that calculates the number of acres in a trace of land with 389,767 square feet.

**Q8)** A car holds 12 gallons and can travel 350 miles before refueling. Write a program that calculates the number of miles per gallon the car gets. Display the result on the screen.

Hint: use the following formula to calculate miles per gallon (MPG)

MPG = Miles Driven / Gallon of Gas Used.

**Q9)** Take a number as an input from the user from the following program and then display that number.

**Q10)** Modify the program of first question by taking the speed and time from the user as input.

**Home Task:**

**Q1)** suppose you are programmer but you have no user manual to see the size of different data types like int, double , float , char and long. Write a programm that will calculate the size of this data types and display data type on screen.

**“Never throughout history has a man who lived a life of ease left a name worth remembering.”   
―** [**Theodore Roosevelt**](http://www.goodreads.com/author/show/44567.Theodore_Roosevelt)