** Department of Electrical and Computer Engineering, NSU**

**CSE 115L: Fundamentals of Computer Programming (Section 4)**

**Lab 05 (Functions) Faculty: Rsl**

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| Ex-1 ( Use of nested Functions) |
| #include<stdio.h>  // Nested function demo height in inch to cm conversion  float enterHeight();  float convert(float);  int main()  {  float cm;  cm= enterHeight();  printf("Height in cm: %.3f \n",cm);  return 0;  }  float enterHeight(){  float inch;  printf("Insert height in inches:");  scanf("%f",&inch);  float ret;  ret= convert(inch);  return ret;  }  float convert(float h){  return (h\*2.54);  } |

**Task (10 marks)**

1. Write a function called getBase( ), getHeight( ), getAreaTriangle(float base, float height).

getBase( ): takes input a base in cm and returns it

getHeight( ) : takes input a height in cm and returns it

getAreaTriangle(float base, float height): Calculates area using formula ½ \* base \* height and returns it

Sample output

Enter base: 2.0

Enter height: 4.0

The base is: 2.0 cm and height is: 4.0 cm

The area of the triangle is : 4.0

2. Write a function called getNum(), getSquare(int n) , getCube(int m). User will input the number and you have to display the square and cube of that number.

[Condition: Use Nested Functions]

Sample output

Enter number: 2

The square of the number is: 4

The cube of the number is: 8