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ID#: 16051

MODULE: Bachelors {Software Engineering}

SEMESTER: summer 2020

SUBJECT: Programming Fundamentals (Lab)

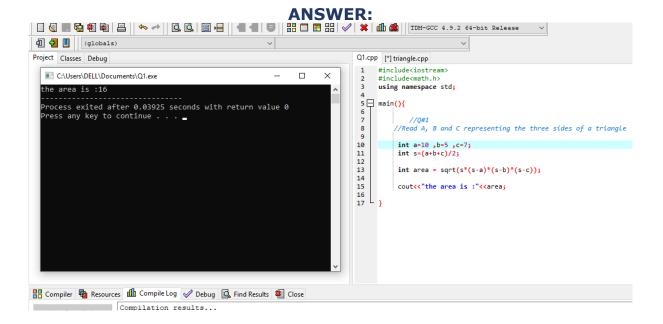
INSTRUCTOR: Dr. Fazal-e-Malik

DATE: 3/10/2020

Question #1

Read A, B and C representing the three sides of a triangle. Write a program to find out its area the formula is given below:

$$Area = \sqrt{S(S-A)(S-B)(S-C)}$$
 Where S= $\frac{A+B+C}{2}$



Question #2

Write a C++ program to get marks obtained by a student in percentage *P* and then find the division according to the below rules:

- If Percentage P is above or equal to 60 then display......1st Division.
- If Percentage P is between 50 & 59 then display......2nd Division.
- If Percentage P is between 40 & 49 then display......3rd Division.
- If Percentage P is less than 40 then display......Fail.

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 (globals)
Project Classes Debug
                                                Q2.cpp
                                                                                                                                 C:\Users\DELL\Documents\Q2.exe
                                                       #include<math.h>
using namespace std;
                                                                                                                                 enter first subject marks
                                              enter 2nd subject marks :
                                                                                                                                 enter 4th subject marks :
                                                              int sub1, sub2, sub3, sub4;
int total = 400;
int obtain;
int p;
                                                                                                                                 the total marks is :265
the percentage is :66
1st division
                                                              //input 4 subject marks;

cout<c"enter first subject marks :"<<endl;

cin>>sub1;

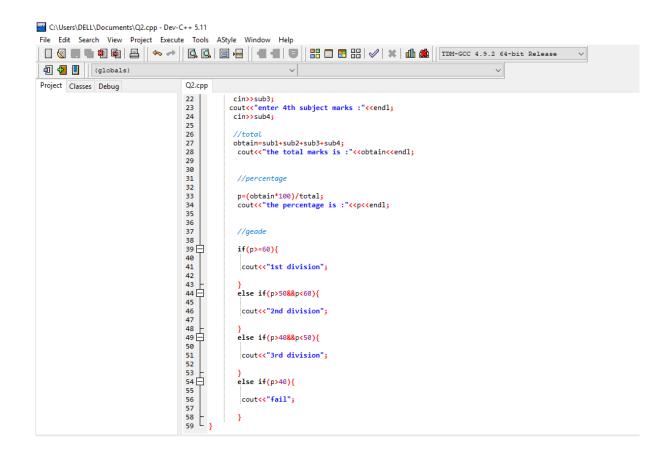
cout<c"enter 2nd subject marks :"<<endl;

cin>>sub2;

cout<c"enter 3rd subject marks :"<<endl;

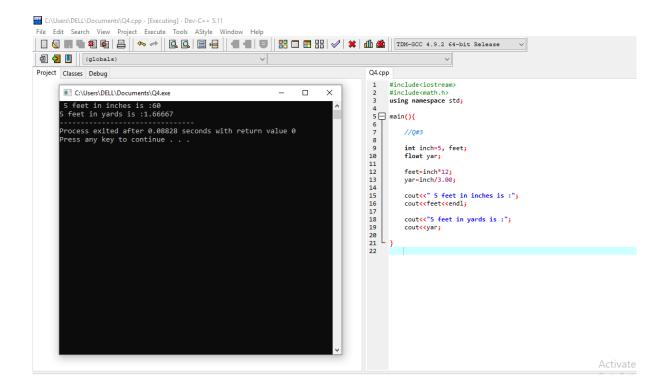
cin>>sub2;
                                                                                                                                  rocess exited after 37.62 seconds with return value 0 ress any key to continue . . . _
                                                20
21
22
23
24
25
26
27
28
                                                              contseller 4th subject marks : "<<endl;
cin>sub3;
cout<<"enter 4th subject marks : "<<endl;
cin>sub4;
                                                                //total
obtain=sub1+sub2+sub3+sub4;
cout<<"the total marks is :"<<obtain<<endl;</pre>
                                                29
🔐 Compiler 🍓 Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results 🏶 Close
          - Output Filename: C:\Users\DELL\Documents\Q2.exe
```

```
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug
                                            Q2.cpp
                                            1 #include<iostream>
                                                  #include<math.h>
using namespace std;
                                             5 = main(){
                                                            //0#2
                                            10
11
12
13
14
15
16
17
                                                         int sub1, sub2, sub3, sub4;
int total = 400;
                                                         int obtain ;
                                                         //input 4 subject marks;
cout<<"enter first subject marks :"<<endl;</pre>
                                                         contx enter Inst subject marks : "<<endl;
contx("enter 2nd subject marks : "<<endl;
cin>>sub2;
                                            18
19
20
21
22
                                                         cout<</pre>cout<</pre>coutcoutcin>sub3;
cout<</pre>enter 4th subject marks :"<<endl;
cin>sub3;
cout<</pre>
                                            23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
                                                          cin>>sub4;
                                                          obtain=sub1+sub2+sub3+sub4;
cout<<"the total marks is :"<<obtain<<endl;
                                                           //percentage
                                                           p=(obtain*100)/total;
                                                            cout<<"the percentage is :"<<p<<endl;</pre>
                                                            //geade
```

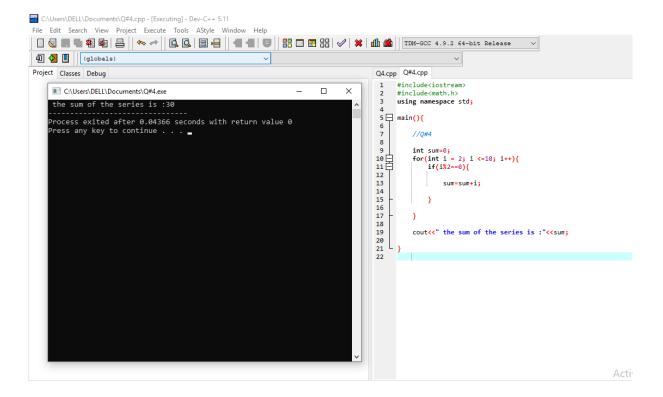


Question #3

Write a C++ program to convert 5 feet to the equivalent number of (a) Inches (b) Yards. Where 1foot =12 Inches and 1 yard=3 feet)



Question #4 Write a C++ program to find the sum of the following series: 2+4+6+8+10



Question# 5

Write a C++ program to input Hours Worked and Hour Rate of an Employee. Calculate and display the Gross-Pay, Tax and Net-Pay; where

Gross-Pay=Hour-Worked*Hour-Rate
Tax=10% of Gross-Pay
Net-Pay=Gross-Pay - Tax

