



SUMMER EXAMINATION 2020

NAME	M ZEESHAN
ID#	14882
SECTION#	B
DEPARTEMENT	BS (SE)
LAB PAPER	PROGRAMMING FUNDAMENTAL

INSTRUCTOR

SIR DR FAZAL E MALIK

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:

ANSWER

```
Q1.cpp Q2.cpp Q3.cpp Q4.cpp Q5.cpp
1 #include <iostream>
2 #include <math.h>
3 using namespace std;
4
5 main(){
6     cout<<"NAME MZEESHAN ID# 14882"
7
8     //Question#1
9     //Read A, B and C representing
10    //Write a program to find out
11
12    int a = 10 , b=5 , c=7;
13    int s = (a+b+c) / 2;
14
15    int area = sqrt(s*(s-a)*(s-b)*
16
17    cout<<"The Area Is:"<<area;
18
19
20
21 }
```

```
C:\Users\MZKHAN\Desktop\C++ lab\QN1.exe
NAME MZEESHAN ID# 14882
The Area Is:16
-----
Process exited after 0.0908 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results Close

Line: 7 Col: 5 Sel: 0 Lines: 21 Length: 413 Insert Done parsing in 0.016 seconds

Type here to search

1:16 AM
10/2/2020

CODING

```
#include <iostream>
#include <math.h>
using namespace std;

main(){
    cout<<"NAME MZEESHAN ID# 14882"<<endl<<endl;
    |
    //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:

    int a = 10 , b=5 , c=7;
    int s = (a+b+c) / 2;

    int area = sqrt(s*(s-a)*(s-b)*(s-c));

    cout<<"The Area Is:"<<area;

}
```

mpiler Resources Compile Log Debug Find Results Close

Col: 5 Sel: 0 Lines: 21 Length: 413 Insert Done parsing in 0.016 seconds

Type here to search



1:17 AM
10/2/2020

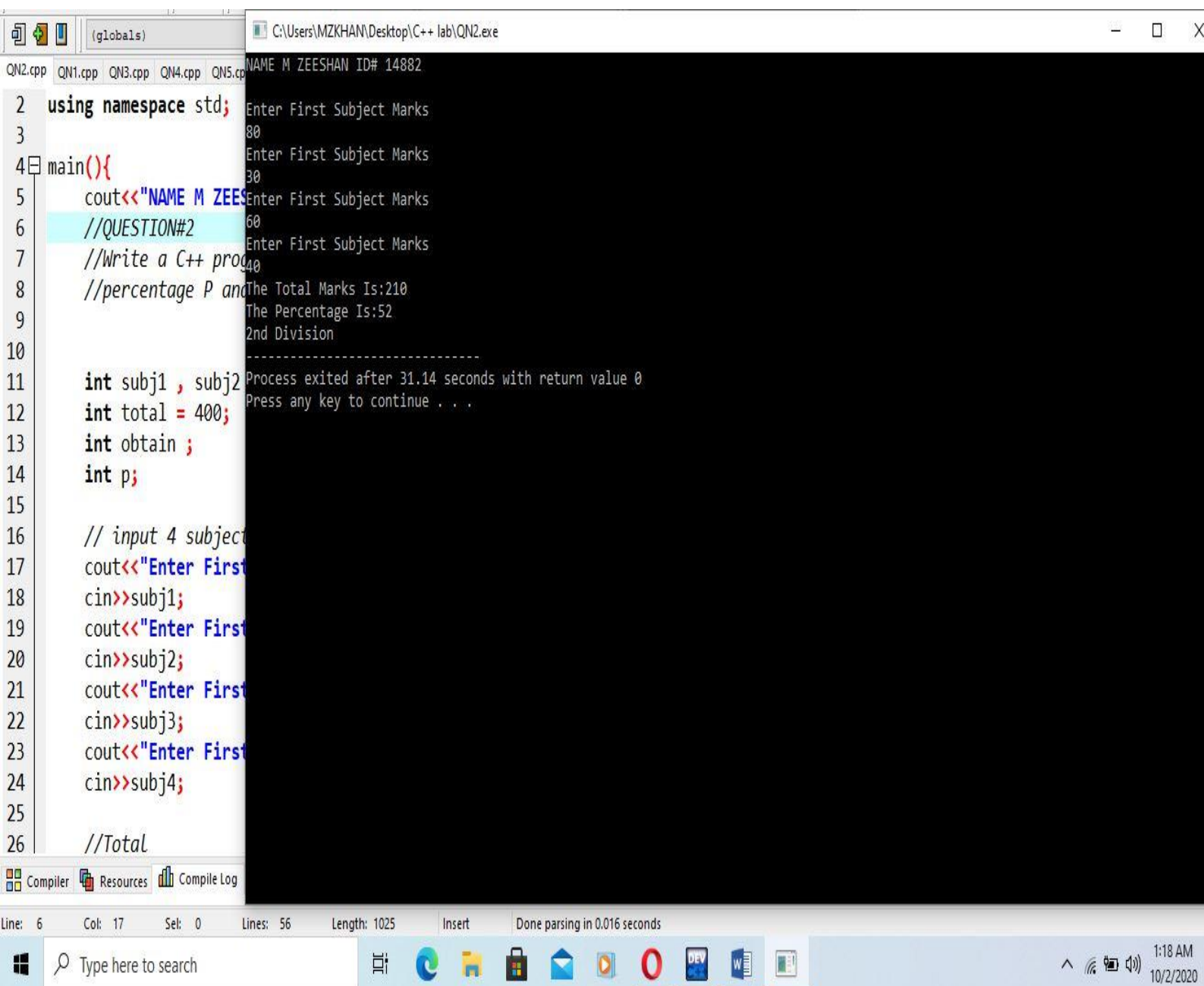
QUESTION#2

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.

ANSWER



```
2 using namespace std;
3
4 main(){
5     cout<<"NAME M ZEESHAN ID# 14882";
6     //QUESTION#2
7     //Write a C++ program to get marks obtained by a student in
8     //percentage P and then find the division according to the below
9     //rules:
10
11     int subj1 , subj2 , subj3 , subj4;
12     int total = 400;
13     int obtain ;
14     int p;
15
16     // input 4 subject marks
17     cout<<"Enter First Subject Marks ";
18     cin>>subj1;
19     cout<<"Enter First Subject Marks ";
20     cin>>subj2;
21     cout<<"Enter First Subject Marks ";
22     cin>>subj3;
23     cout<<"Enter First Subject Marks ";
24     cin>>subj4;
25
26     //Total Marks
27     total = subj1 + subj2 + subj3 + subj4;
28     cout<<"The Total Marks Is:"<<total<<endl;
29     //Percentage
30     p = (total / 400) * 100;
31     cout<<"The Percentage Is:"<<p<<endl;
32
33     //Division
34     if(p >= 60)
35         cout<<"1st Division";
36     else if(p >= 50 && p < 60)
37         cout<<"2nd Division";
38     else if(p >= 40 && p < 50)
39         cout<<"3rd Division";
40     else
41         cout<<"Fail";
42
43     cout<<endl;
44     return 0;
45 }
```

Output:
NAME M ZEESHAN ID# 14882
Enter First Subject Marks 80
Enter First Subject Marks 30
Enter First Subject Marks 60
Enter First Subject Marks 40
The Total Marks Is:210
The Percentage Is:52
2nd Division

Process exited after 31.14 seconds with return value 0
Press any key to continue . . .

CODING

```
using namespace std;
```

```
main(){
```

```
cout<<"NAME M ZEESHAN ID# 14882"<<endl<<endl;
```

```
//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:
```

```
int subj1 , subj2 , subj3 , subj4;
```

```
int total = 400;
```

```
int obtain ;
```

```
int p;
```

```
// input 4 subjects marks:
```

```
cout<<"Enter First Subject Marks"<<endl;
```

```
cin>>subj1;
```

```
cout<<"Enter First Subject Marks"<<endl;
```

```
cin>>subj2;
```

```
cout<<"Enter First Subject Marks"<<endl;
```

```
cin>>subj3;
```

```
cout<<"Enter First Subject Marks"<<endl;
```

```
cin>>subj4;
```

```
//Total
```

mpiler Resources Compile Log Debug Find Results Close

Col: 17 Sel: 0 Lines: 56 Length: 1025 Insert Done parsing in 0.016 seconds

Type here to search



1:19 AM
10/2/2020

Q12.cpp Q11.cpp Q13.cpp Q14.cpp Q15.cpp

```
25
26 //Total
27 obtain = subj1 + subj2 + subj3 + subj4;
28 cout<<"The Total Marks Is:"<<obtain<<endl;
29
30 //Percentage
31
32 p = (obtain * 100 ) / total;
33 cout<<"The Percentage Is:"<<p<<endl;
34
35 //Grade
36
37 if(p>=60){
38
39     cout<<"1st Division";
40 }
41 else if (p>50 && p<60){
42
43     cout<<"2nd Division";
44 }
45 else if (p>40 && p<50){
46
47     cout<<"3rd Division";
48 }
49 else if (p<40){
```

Compiler Resources Compile Log Debug Find Results Close

line: 6 Col: 17 Sel: 0 Lines: 56 Length: 1025 Insert Done parsing in 0.016 seconds

Type here to search



1:19 AM
10/2/2020

```
//Grade
```

```
if(p>=60){  
    cout<<"1st Division";  
}  
else if (p>50 && p<60){  
    cout<<"2nd Division";  
}  
else if (p>40 && p<50){  
    cout<<"3rd Division";  
}  
else if (p<40){  
    cout<<"Fail";  
}  
}
```

Compiler Resources Compile Log Debug Find Results Close

Col: 17 Sel: 0 Lines: 56 Length: 1025 Insert Done parsing in 0.016 seconds

Type here to search

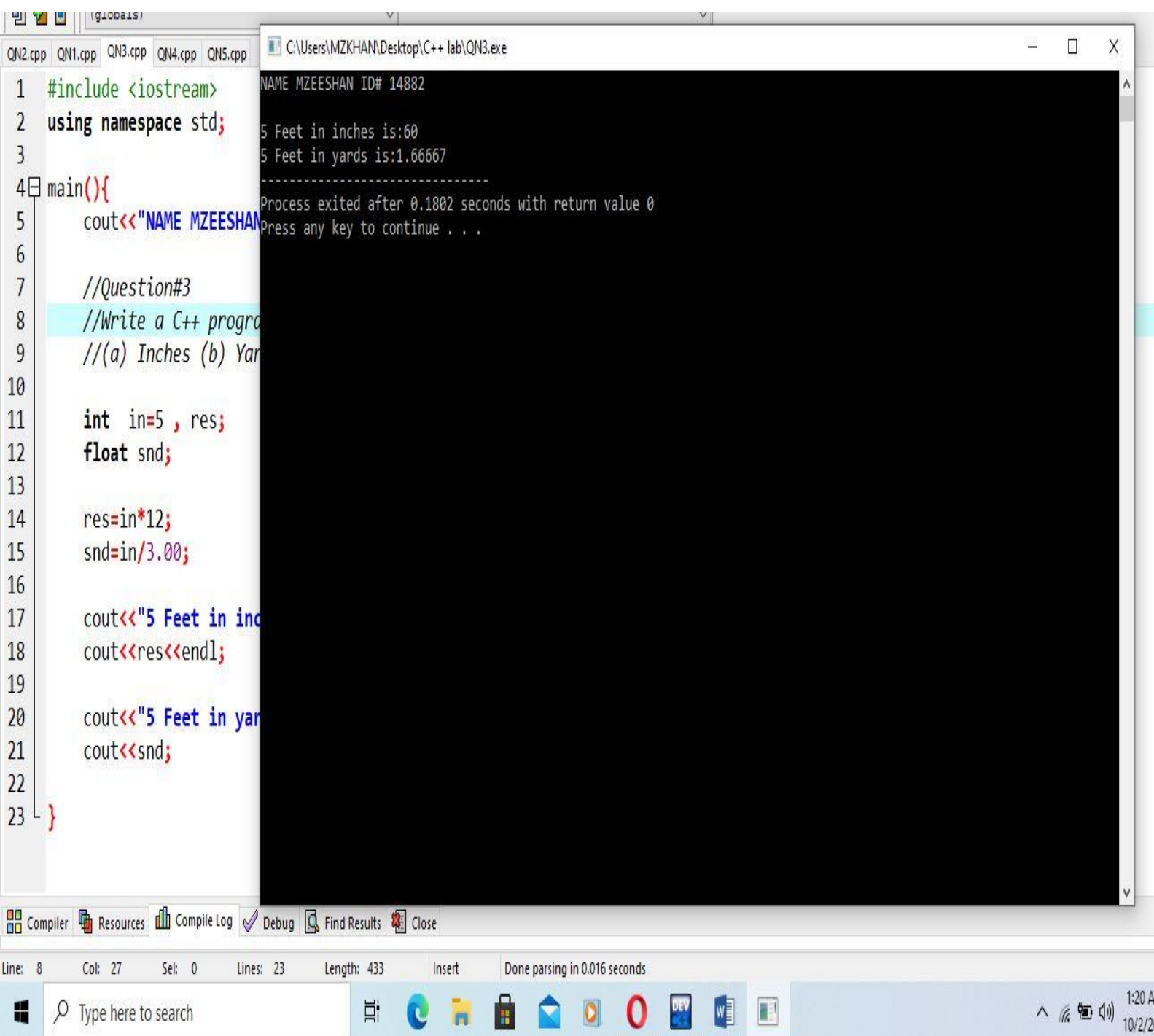


1:19 AM
10/2/2020

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)

ANSWER



The image shows a screenshot of a C++ IDE with two windows. The left window displays the source code for a program that converts 5 feet to inches and yards. The right window shows the program's output, which includes the user's name and ID, the conversion results, and a confirmation message.

```
1 #include <iostream>
2 using namespace std;
3
4 main(){
5     cout<<"NAME MZEESHAN ID# 14882\n";
6
7     //Question#3
8     //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)
9
10
11     int in=5 , res;
12     float snd;
13
14     res=in*12;
15     snd=in/3.00;
16
17     cout<<"5 Feet in inches is:"<<res<<endl;
18     cout<<res<<endl;
19
20     cout<<"5 Feet in yards is:"<<snd<<endl;
21     cout<<snd<<endl;
22
23 }
```

Output:

```
NAME MZEESHAN ID# 14882
5 Feet in inches is:60
5 Feet in yards is:1.66667
-----
Process exited after 0.1802 seconds with return value 0
Press any key to continue . . .
```


QN2.cpp QN1.cpp QN3.cpp QN4.cpp QN5.cpp

```
1 #include <iostream>
2 using namespace std;
3
4 main(){
5     cout<<"NAME MZEESHAN ID# 14882"<<endl<<endl;
6
7     //Question#3
8     //Write a C++ program to convert 5 feet to the equivalent number of
9     //(a) Inches (b) Yards. Where 1foot =12 Inches and 1 yard=3 feet)
10
11     int in=5 , res;
12     float snd;
13
14     res=in*12;
15     snd=in/3.00;
16
17     cout<<"5 Feet in inches is:";
18     cout<<res<<endl;
19
20     cout<<"5 Feet in yards is:";
21     cout<<snd;
22
23 }
```

Compiler Resources Compile Log Debug Find Results Close

Line: 8 Col: 27 Sel: 0 Lines: 23 Length: 433 Insert Done parsing in 0.016 seconds

Type here to search



1:20 AM
10/2/2020

QUESTION#4

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

ANSWER

```
QN2.cpp QN1.cpp QN3.cpp QN4.cpp QN5.cpp
1 #include <iostream>
2 using namespace std;
3
4 main()
5 {
6     cout<<"NAME MZEESHAN ID# 14882"
7
8     //Question#4
9     //Write a C++ program to
10
11     int sum = 0;
12     for (int i = 2; i <= 10; i++)
13     {
14         if(i%2==0){
15
16             sum=sum+i;
17         }
18     }
19
20     cout<<"The Sum Of The Series Is:30"
21 }
```

```
C:\Users\MZKHAN\Desktop\C++ lab\QN4.exe
NAME MZEESHAN ID# 14882
The Sum Of The Series Is:30
-----
Process exited after 0.09816 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results Close

Line: 10 Col: 1 Sel: 0 Lines: 21 Length: 357 Insert Done parsing in 0.016 seconds

Type here to search

1:22 AM 10/2/2020

Q2.cpp QN1.cpp QN3.cpp QN4.cpp QN5.cpp

```
1 #include <iostream>
2 using namespace std;
3
4 main()
5 {
6     cout<<"NAME MZEESHAN ID# 14882"<<endl<<endl;
7
8     //Question#4
9     //Write a C++ program to find the sum of the following series: 2+4+6+8+10
10
11     int sum = 0;
12     for (int i = 2; i <= 10; i++)
13     {
14         if(i%2==0){
15
16             sum=sum+i;
17         }
18
19     }
20     cout<<"The Sum Of The Series Is:"<<sum;
21 }
```

Compiler Resources Compile Log Debug Find Results Close

Line: 10 Col: 1 Sel: 0 Lines: 21 Length: 357 Insert Done parsing in 0.016 seconds

Type here to search



1:22 AM 10/2/2020

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

ANSWER

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int hours, rate, gross, tax, net;
7     cout << "NAME MZEESHAN ID# 14882\n";
8     cout << "Enter Works Hours:\n";
9     cin >> hours;
10    cout << "Enter Hour Rate:\n";
11    cin >> rate;
12    gross = hours * rate;
13    tax = gross * 0.10;
14    net = gross - tax;
15    cout << "The Net Sallary Is:190\n";
16
17    //-----
18    //Process exited after 6.541 seconds with return value 0
19    //Press any key to continue . . .
20
21    //
22
23
24    cout << "The Net Sallary Is:" << netpay;
25 }
```



Q2.cpp Q1.cpp Q3.cpp Q4.cpp Q5.cpp

```
1 #include <iostream>
2 using namespace std;
3
4 main()
5 {
6     cout<<"NAME MZEESHAN ID# 14882"<<endl<<endl;
7
8     //Question#5
9     //Write a C++ program to input Hours Worked and Hour Rate of an Employee.
10    // Calculate and display the Gross-Pay, Tax and Net-Pay; where
11
12    float hwork, hrate, grosspay , netpay;
13    int tax = 10;
14
15    cout<<"Enter Works Hours:"<<endl;
16    cin>>hwork;
17
18    cout<<"Enter Hour Rate:"<<endl;
19    cin>>hrate;
20
21    grosspay = hwork * hrate;
22    netpay = grosspay - tax ;
23
24    cout<<"The Net Sallary Is:"<< netpay;
25 }
```

Compiler Resources Compile Log Debug Find Results Close

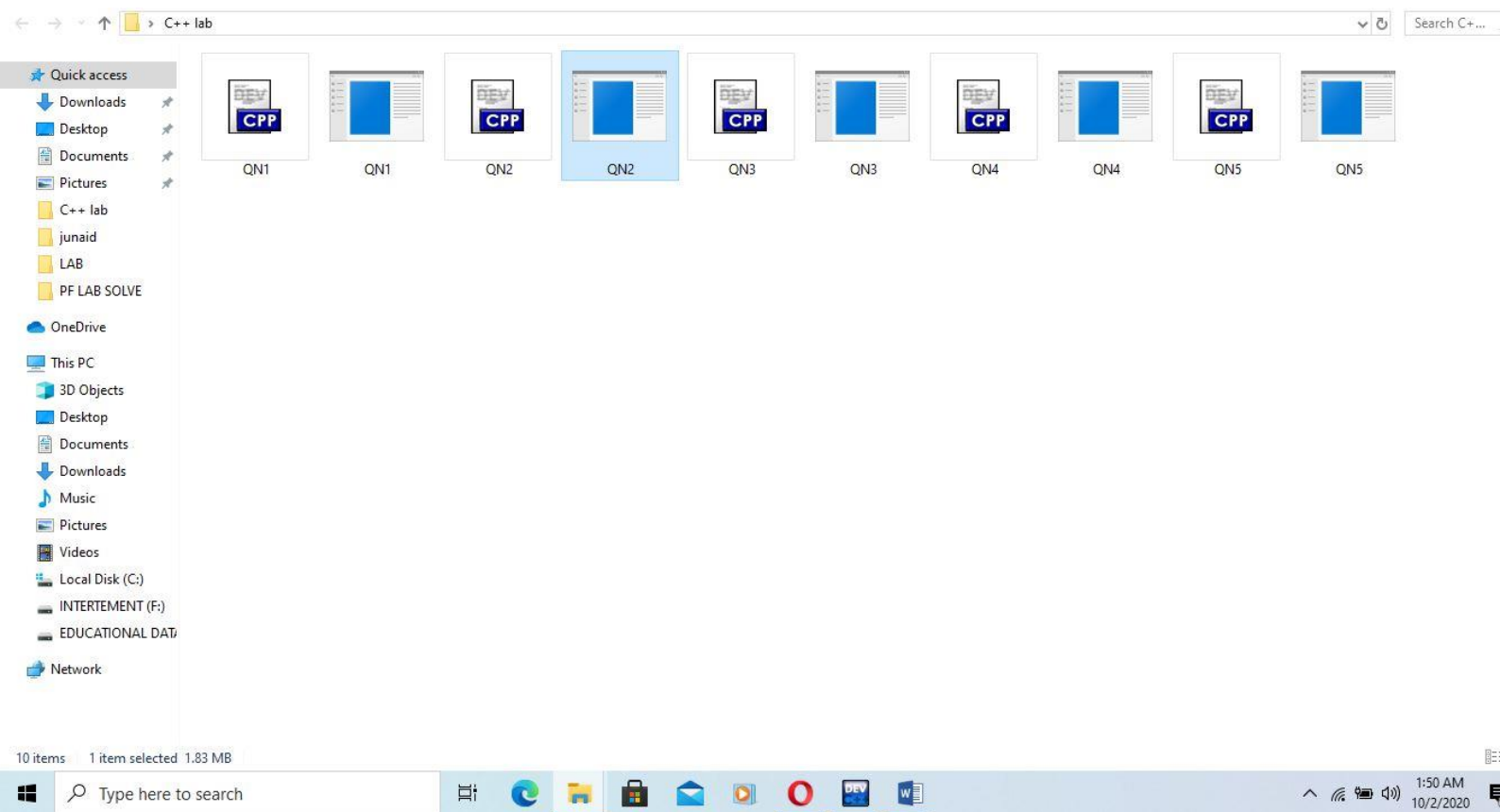
Line: 10 Col: 67 Sel: 0 Lines: 26 Length: 591 Insert Done parsing in 0.016 seconds

Type here to search



1:23 AM
10/2/2020

ALL RUNS FILE IN C++



TAHNK YOU SIR