

LAB 03

EC2010: Computer Programming

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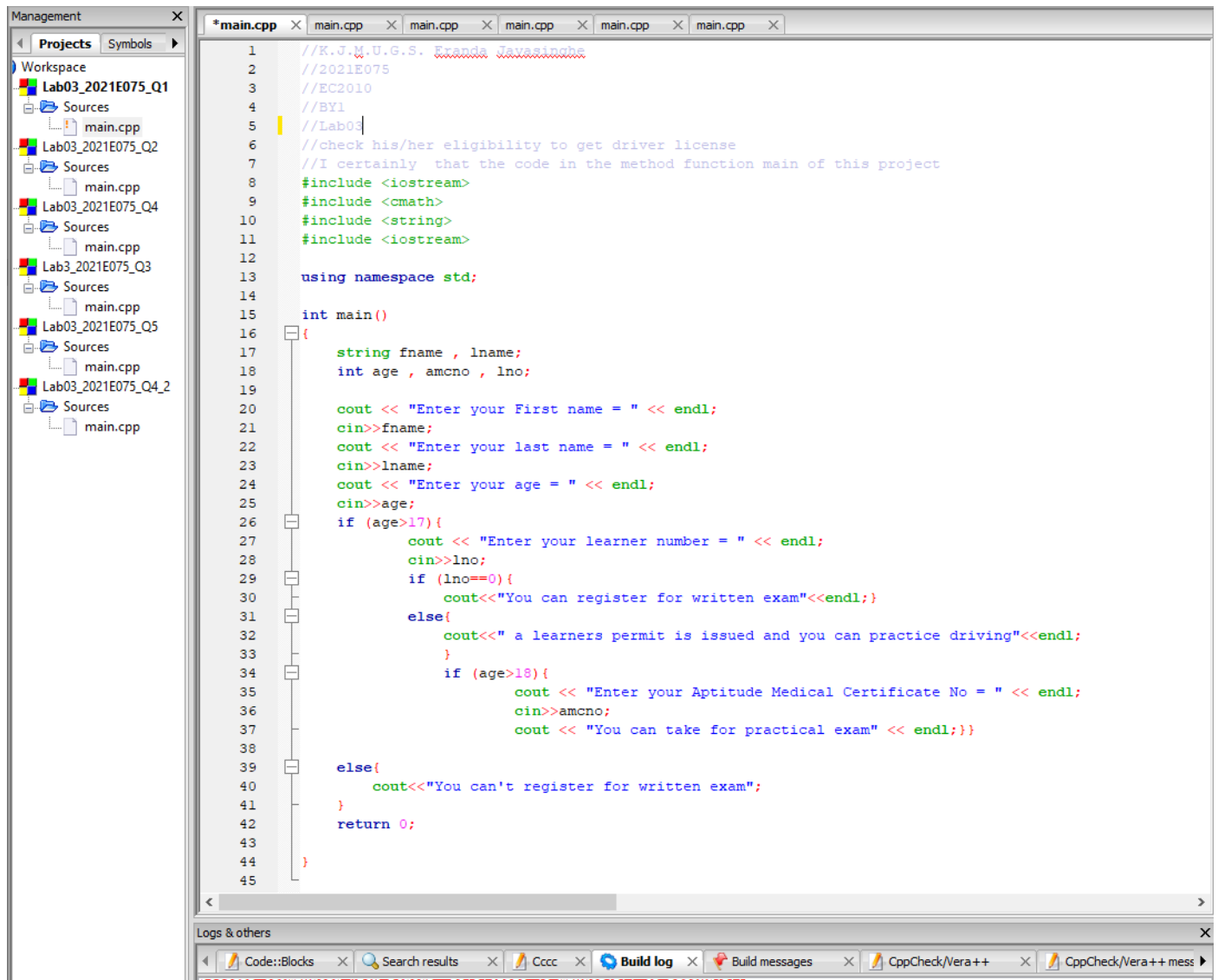
Reg no : 2021/E/075

SEMESTER 2

Lab 03

Date : 29/11/2022

Q1



"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q1\bin\Debug\Lab03_2021E075_Q1.exe"

```
Enter your First name =
san
Enter your last name =
jaya
Enter your age =
18
Enter your learner number =
0
You can register for written exam

Process returned 0 (0x0)   execution time : 16.587 s
Press any key to continue.
```

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q1\bin\Debug\Lab03_2021E075_Q1.exe"

```
Enter your First name =
Era
Enter your last name =
Nda
Enter your age =
18
Enter your learner number =
1
a learners permit is issued and you can practice driving

Process returned 0 (0x0)   execution time : 16.034 s
Press any key to continue.
```

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q1\bin\Debug\Lab03_2021E075_Q1.exe"

```
Enter your First name =  
Era  
Enter your last name =  
Nda  
Enter your age =  
19  
Enter your learner number =  
0  
You can register for written exam  
Enter your Aptitude Medical Certificate No =  
6  
You can take for practical exam  
  
Process returned 0 (0x0)   execution time : 44.218 s  
Press any key to continue.
```

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q1\bin\Debug\Lab03_2021E075_Q1.exe"

```
Enter your First name =  
Era  
Enter your last name =  
Nda  
Enter your age =  
19  
Enter your learner number =  
2  
a learners permit is issued and you can practice driving  
Enter your Aptitude Medical Certificate No =  
3  
You can take for practical exam  
  
Process returned 0 (0x0)   execution time : 19.664 s  
Press any key to continue.
```

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q1\bin\Debug\Lab03_2021E075_Q1.exe"

Enter your First name =

Eranda

Enter your last name =

Jaysinhe

Enter your age =

15

You can't register for written exam

Process returned 0 (0x0) execution time : 20.962 s

Press any key to continue.

The screenshot shows a C++ IDE with a project management pane on the left and a code editor on the right. The project management pane lists several projects under a 'Workspace' folder, including 'Lab03_2021E075_Q1' through 'Lab03_2021E075_Q4_2'. The code editor displays a C++ program for a student eligibility checker. The program includes comments, a namespace, a main function, and a switch statement for grade evaluation.

```

1 //K.J.M.U.G.S. Eranda Javasinghe
2 //2021E075
3 //EC2010
4 //BY1
5 //Lab03
6 //switch case to check the eligibility of the student to go next level
7 //I certainly that the code in the method function main of this project
8 #include <iostream>
9
10 using namespace std;
11
12 int main()
13 {
14     string name , subject ;
15     int reg_no;
16     char grade;
17
18     cout << "Enter your name = " << endl;
19     cin>>name;
20     cout << "Enter your subject = " << endl;
21     cin>>subject;
22     cout << "Enter your Register no = " << endl;
23     cin>>reg_no;
24     cout << "Enter your grade = " << endl;
25     cin>>grade;
26
27     switch (grade){
28     case 'A':
29         cout << "Excellent, your grade is A." << endl;
30         break;
31     case 'B':
32         cout << "Well done, your grade is B." << endl;
33         break;
34     case 'C':
35         cout << "You passed, your grade is C." << endl;
36         break;
37     case 'D':
38         cout << " Better try again, your grade is D." << endl;
39         break;
40     default:
41         cout << "Invalid grade." << endl;
42         break;
43     }
44
45     return 0;
46 }
47

```

The bottom status bar shows the file path 'C:\Users\2021e075\O\C/C++', the window title 'Windows (CR+LF)', the file name 'WINDOWS-1252', the cursor position 'Line 22, Col 49, Pos 517', and the editor mode 'Insert'.

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q2\bin\Debug\Lab03_2021E075_Q2.exe"

```
Enter your name =  
Sanjaya  
Enter your subject =  
History  
Enter your Register no =  
75  
Enter your grade =  
A  
Excellent, your grade is A.  
  
Process returned 0 (0x0)   execution time : 22.728 s  
Press any key to continue.
```

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q2\bin\Debug\Lab03_2021E075_Q2.exe"

```
Enter your name =  
Eranda  
Enter your subject =  
Maths  
Enter your Register no =  
76  
Enter your grade =  
B  
Well done, your grade is B.  
  
Process returned 0 (0x0)   execution time : 14.268 s  
Press any key to continue.
```

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q2\bin\Debug\Lab03_2021E075_Q2.exe"

```
Enter your name =  
San  
Enter your subject =  
Sinhala  
Enter your Register no =  
75  
Enter your grade =  
C  
You passed, your grade is C.  
  
Process returned 0 (0x0)   execution time : 20.757 s  
Press any key to continue.
```

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q2\bin\Debug\Lab03_2021E075_Q2.exe"

```
Enter your name =  
Eran  
Enter your subject =  
English  
Enter your Register no =  
75  
Enter your grade =  
D  
Better try again, your grade is D.  
  
Process returned 0 (0x0)   execution time : 17.288 s  
Press any key to continue.
```


"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q2\bin\Debug\Lab03_2021E075_Q2.exe"

Enter your name =

Sanjaya

Enter your subject =

physics

Enter your Register no =

75

Enter your grade =

S

Invalid grade.

Process returned 0 (0x0) execution time : 27.598 s

Press any key to continue.

Q3

Management X

Projects Symbols

Workspace

- Lab03_2021E075_Q1
 - Sources
 - main.cpp
- Lab03_2021E075_Q2
 - Sources
 - main.cpp
- Lab03_2021E075_Q4
 - Sources
 - main.cpp
- Lab3_2021E075_Q3
 - Sources
 - main.cpp
- Lab03_2021E075_Q5
 - Sources
 - main.cpp
- Lab03_2021E075_Q4_2
 - Sources
 - main.cpp

main.cpp X main.cpp X main.cpp X *main.cpp X main.cpp X main.cpp X

```
1 //K.J.M.U.G.S. Eranda Javasinghe
2 //2021E075
3 //EC2010
4 //BY1
5 //Lab03
6 //find the multiplication of all those 10 numbers
7 //I certainly that the code in the method function main
8 #include <iostream>
9 #include <cmath>
10
11 using namespace std;
12
13 int main()
14 {
15     int i , sum = 1 , t ;
16     for(i=1 ; i<=10 ; i++){
17         cout<<"Enter number = ";
18         cin>>t;
19         sum = sum*t;
20     }
21     cout << "multiplication is = " <<sum;
22     return 0;
23 }
24
```

Logs & others

Code::Blocks X Search results X Cccc X Build log X Build message

C:\Users\2021e075\O C/C++ Windows (CR+LF) WINDOWS-1252 Line 6, Col 50, Pos 121 Ins

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab3_2021E075_Q3\bin\Debug\Lab3_2021E075_Q3.exe"

```
Enter number = 2
Enter number = 5
Enter number = 3
Enter number = 4
Enter number = 6
Enter number = 2
Enter number = 4
Enter number = 3
Enter number = 2
Enter number = 3
multiplication is = 103680
Process returned 0 (0x0)   execution time : 17.722 s
Press any key to continue.
```

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab3_2021E075_Q3\bin\Debug\Lab3_2021E075_Q3.exe"

```
Enter number = 1
Enter number = 1
Enter number = 1
Enter number = 1
Enter number = 1
Enter number = 2
Enter number = 2
Enter number = 2
Enter number = 2
Enter number = 2
multiplication is = 32
Process returned 0 (0x0)   execution time : 12.912 s
Press any key to continue.
```

Management X

Projects Symbols

Workspace

- Lab03_2021E075_Q1
 - Sources
 - main.cpp
- Lab03_2021E075_Q2
 - Sources
 - main.cpp
- Lab03_2021E075_Q4
 - Sources
 - main.cpp
- Lab3_2021E075_Q3
 - Sources
 - main.cpp
- Lab03_2021E075_Q5
 - Sources
 - main.cpp
- Lab03_2021E075_Q4_2
 - Sources
 - main.cpp

main.cpp X main.cpp X **main.cpp** X main.cpp X main.cpp X main.cpp X

```
1 //K.J.M.U.G.S. Eranda Javasinghe
2 //2021E075
3 //EC2010
4 //BY1
5 //Lab03
6 //find the summation of positive numbers
7 //I certainly that the code in the method function main of this project
8 #include <iostream>
9
10 using namespace std;
11
12 int main()
13 {
14     int i=1 , sum = 0 ,t ;
15     while(i<=10){
16         cout<<"Enter number = ";
17         cin>>t;
18         if (t>0)
19         {
20             sum = sum+t;
21             i++;
22         }
23         else{
24             i++;
25         }
26     }
27     cout << "multiplication is = " <<sum;
28     return 0;
29 }
30
31
```

Logs & others

Code::Blocks X Search results X Cccc X **Build log** X Build messages X CppCheck/Vera+

C:\Users\2021e075\O C/C++ Windows (CR+LF) WINDOWS-1252 Line 7, Col 73, Pos 186 Insert Read/W

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q4\bin\Debug\Lab03_2021E075_Q4.exe"

```
Enter number = 2
Enter number = 5
Enter number = 3
Enter number = 8
Enter number = 7
Enter number = 4
Enter number = 3
Enter number = 8
Enter number = 9
Enter number = 4
multiplication is = 53
Process returned 0 (0x0)   execution time : 14.146 s
Press any key to continue.
```

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q4\bin\Debug\Lab03_2021E075_Q4.exe"

```
Enter number = 2
Enter number = 5
Enter number = 3
Enter number = 
8
Enter number = 7
Enter number = 4
Enter number = 8
Enter number = 9
Enter number = 4
Enter number = -3
multiplication is = 50
Process returned 0 (0x0)   execution time : 22.411 s
Press any key to continue.
```

Management X

Projects Symbols

Workspace

- Lab03_2021E075_Q1
 - Sources
 - main.cpp
- Lab03_2021E075_Q2
 - Sources
 - main.cpp
- Lab03_2021E075_Q4
 - Sources
 - main.cpp
- Lab3_2021E075_Q3
 - Sources
 - main.cpp
- Lab03_2021E075_Q5
 - Sources
 - main.cpp
- Lab03_2021E075_Q4_2
 - Sources
 - main.cpp

main.cpp X main.cpp X main.cpp X main.cpp X main.cpp X main.cpp X

```
1 //K.J.M.U.G.S. Franda Javasinghe
2 //2021E075
3 //EC2010
4 //BY1
5 //Lab03
6 //find the summation of positive numbers
7 //I certainly that the code in the method function main of this project
8 #include <iostream>
9
10 using namespace std;
11
12 int main()
13 {
14     int i=1 , sum = 0 , t ;
15     do{
16         cout<<"Enter number = ";
17         cin>>t;
18         if (t>0)
19         {
20             sum = sum+t;
21             i++;
22         }
23         else{
24             i++;
25         }
26     }
27     while(i<=10);
28     cout << "multiplication is = " <<sum;
29     return 0;
30 }
31
```

Logs & others

Code::Blocks X Search results X Cccc X Build log X Build messages X CppCheck/Ve

C:\Users\2021e075\O C/C++ Windows (CR+LF) WINDOWS-1252 Line 18, Col 17, Pos 355 Insert Reac

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q4_2\bin\Debug\Lab03_2021E075_Q4_2.exe"

```
Enter number = 2
Enter number = 5
Enter number = 3
Enter number = 8
Enter number = 7
Enter number = 4
Enter number = 3
Enter number = 8
Enter number = 9
Enter number = 4
multiplication is = 53
Process returned 0 (0x0)   execution time : 25.607 s
Press any key to continue.
```

"C:\Users\2021e075\OneDrive - University of Jaffna\lab3\Lab03_2021E075_Q4_2\bin\Debug\Lab03_2021E075_Q4_2.exe"

```
Enter number = 2
Enter number = 5
Enter number = 3
Enter number = 8
Enter number = 7
Enter number = 4
Enter number = 8
Enter number = 9
Enter number = 4
Enter number = -3
multiplication is = 50
Process returned 0 (0x0)   execution time : 17.227 s
Press any key to continue.
```

