

# LAB 01: COMPUTING

## Final lab-01

### EC2010

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REGISTRATION NO. : 2021/E/075

DATE ASSIGNED : 08/11/ 2022

GROUP : B

SEMESTER : 2

## Exercise 01

The screenshot shows the Code::Blocks IDE with a C++ project named "2021E075-Lab01". The main.cpp file contains the following code:

```
1 //K.J.G.U.G.S. XXXXXXXXXXXX
2 //2021E075
3 //EC2010
4 //B
5 //1
6 //This is my first C++ project
7 //This is some details about number of grocery items he/she has in the basket
8 // I certify that the code in method function main of this project is
9 //entirely my own work, but I received assistance from [insert name/book/lecture/idea].
10
11 #include <iostream>
12
13 using namespace std;
14
15 int main()
16 {
17     int first_number , second_number , sum;
18     cout<<"Enter two integers: ";
19     cin>>first_number>>second_number;
20
21     //sum of two numbers is stored in variable in variable sumOfTwoNumbers
22     sum=first_number + second_number;
23
24     //prints sum
25     cout<<first_number<< " + " << second_number << " = " << sum;
26
27     return 0;
28 }
29
30
31
```

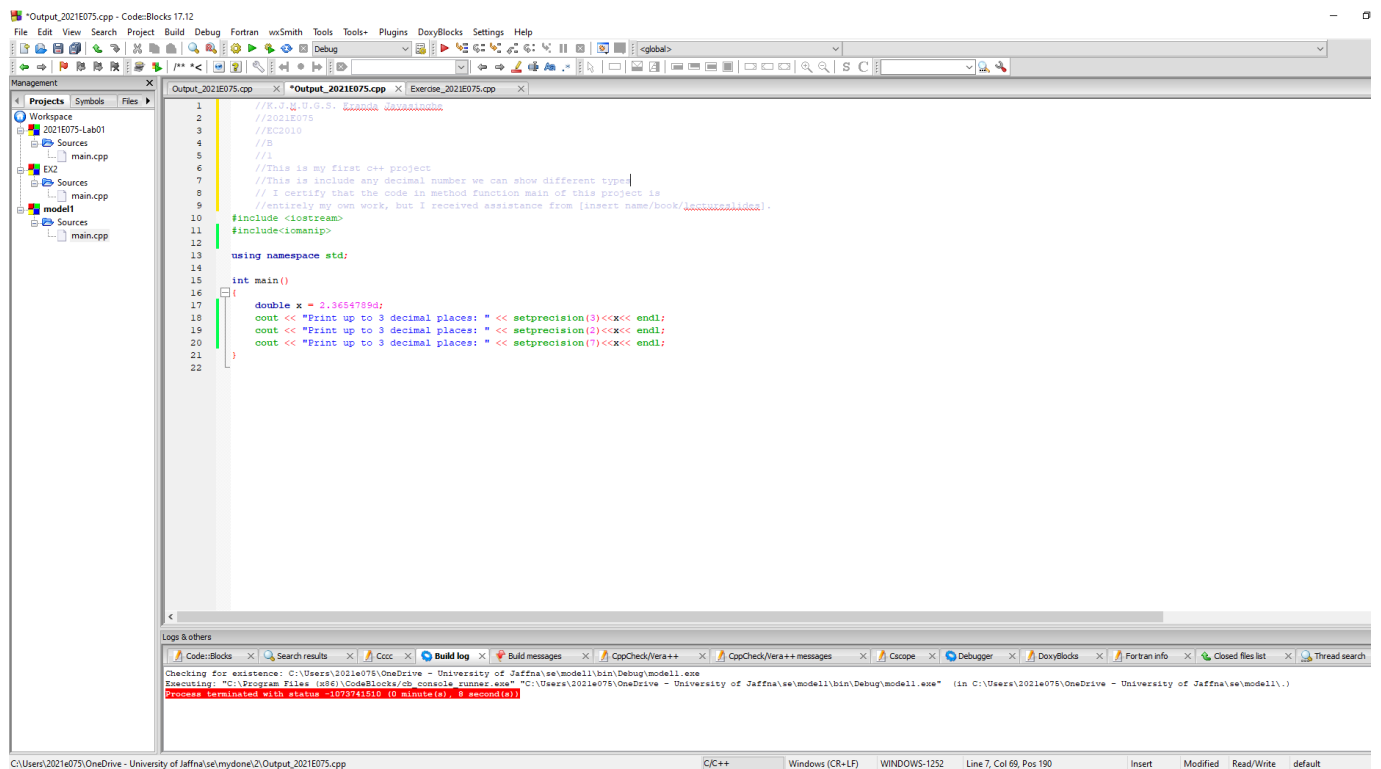
The bottom panel shows the "Log & others" window with the following output:

```
Code::Blocks x Search results x C++ x Build log x Build messages x CppCheck/Ver++ x CppCheck/Ver++ messages x Cscope x Debugger x DoxyBlocks x Fortran info x Closed files list x Thre
Checking for existence: C:\Users\2021e075\OneDrive - University of Jaffna\se\model1\bin\Debug\model1.exe
Executing: "C:\Program Files (x86)\CodeBlocks\cb_console_runner.exe" "C:\Users\2021e075\OneDrive - University of Jaffna\se\model1\bin\Debug\model1.exe" (in C:\Users\2021e075\OneDrive - University of Jaffna\se\model1\.)
Process terminated with status -1073741810 (0 minute(s) 0 second(s))
```

"C:\Users\2021e075\OneDrive - University of Jaffna\se\mydone\Output\_2021E075.cpp

```
Enter two integers: 45 60
45 + 60 = 105
Process returned 0 (0x0)   execution time : 18.891 s
Press any key to continue.
```

## Exercise 02



"C:\Users\2021e075\OneDrive - University of Jaffna\se\EX2\bin\Debug\EX2.exe"

```
Print up to 3 decimal places: 2.37
Print up to 3 decimal places: 2.4
Print up to 3 decimal places: 2.365479
```

```
Process returned 0 (0x0)   execution time : 0.125 s
Press any key to continue.
```

## **Lab 01: Program Structure**

Q1 , Q2 , Q3 , Q4

//q1

//q2

//K.J.M.U.G.S. Eranda Jayasinghe

//2021E075

//EC2010

//B

//1

//This is my first c++ project

//This is some details about number of grocery items he/she has in the basket

// I certify that the code in method function main of this project is

// entirely my own work, but I received assistance from [insert name/book/lectureslides].

#include <iostream>

using namespace std;

int main()

{

//q3

string name1 , name2;

int Banana = 120 , Carrot = 140 , Mango = 200 , Dhal\_packet = 500 , sum1;

float sum =0;

int banana,carrot,mango,dhal\_packet;

sum1= Banana + Carrot+Mango+Dhal\_packet;

cout << "Your sum is = " << sum1<<endl;

//q4

cout << "Please provide your name = " << endl;

cin>>name1>>name2;

cout << "How many Bananas do you have?" << endl;

cin>>banana;

sum=sum+(banana\*Banana);

cout << "How many Carrots do you have?" << endl;

cin>>carrot;

sum=sum+(Carrot\*carrot);

cout << "How many Mangoes do you have?" << endl;

cin>>mango;

sum=sum+(Mango\*mango);

cout << "How many Dhal packets do you have?" << endl;

cin>>dhal\_packet;

sum=(sum+(Dhal\_packet\*dhal\_packet))/1000;

cout<<"Your name is = "<<name1;

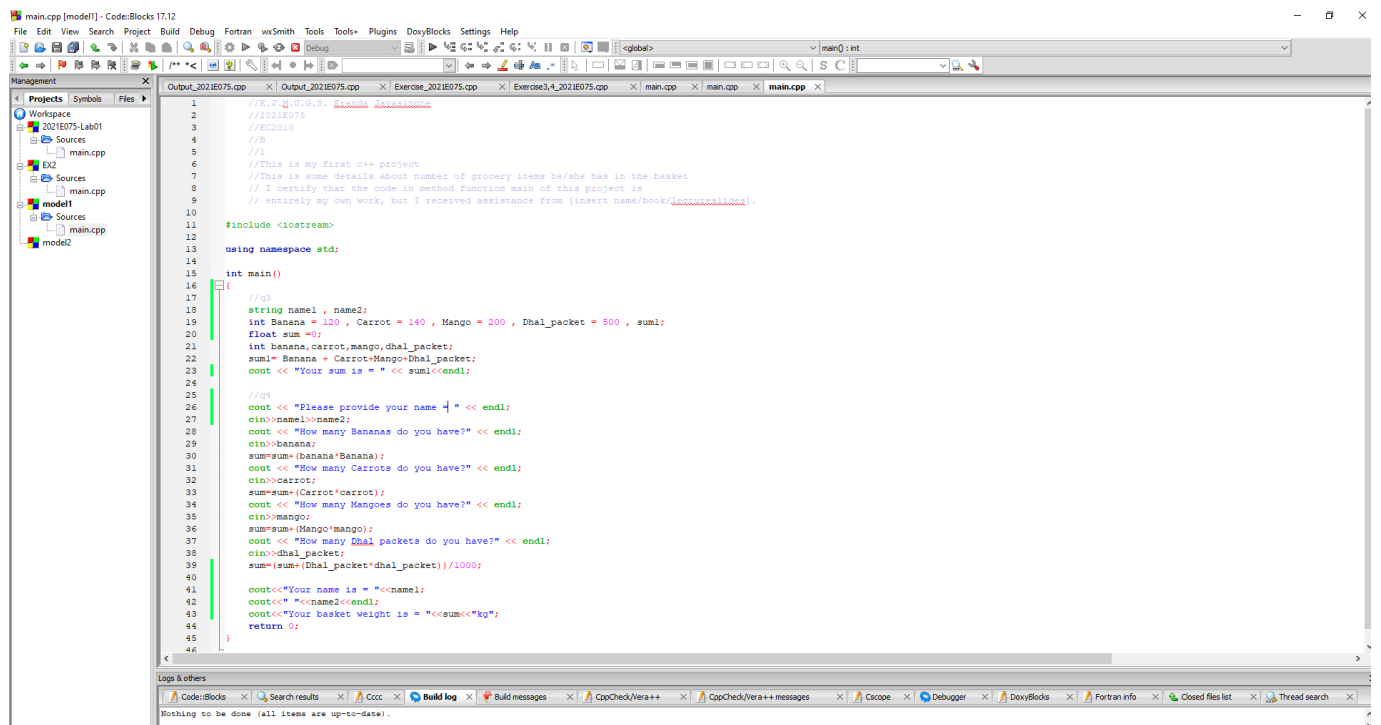
cout<<" "<<name2<<endl;

cout<<"Your basket weight is = "<<sum<<"kg";

return 0;

}

## Question



```
1 //R.J.G.U.G.S. Eranda Jayasinghe
2 //2021E075
3 //EC2010
4 //B
5 //1
6 //This is my first C++ project
7 //This is some details about number of grocery items he/she has in the basket
8 // I certify that the code in method function main of this project is
9 // entirely my own work, but I received assistance from [insert name/book/website].
10
11 #include <iostream>
12
13 using namespace std;
14
15 int main()
16 {
17     //q3
18     string name1, name2;
19     int Banana = 120, Carrot = 140, Mango = 200, Dhal_packet = 500, sum1;
20     float sum = 0;
21     int banana, carrot, mango, dhal_packet;
22     sum1 = Banana + Carrot + Mango + Dhal_packet;
23     cout << "Your sum is = " << sum1 << endl;
24
25     //q4
26     cout << "Please provide your name -> " << endl;
27     cin >> name1 >> name2;
28     cout << "How many Bananas do you have?" << endl;
29     cin >> banana;
30     sum = sum + (banana * Banana);
31     cout << "How many Carrots do you have?" << endl;
32     cin >> carrot;
33     sum = sum + (Carrot * carrot);
34     cout << "How many Mangoes do you have?" << endl;
35     cin >> mango;
36     sum = sum + (Mango * mango);
37     cout << "How many Dhal packets do you have?" << endl;
38     cin >> dhal_packet;
39     sum = (sum + (dhal_packet * dhal_packet)) / 1000;
40
41     cout << "Your name is = " << name1;
42     cout << " " << name2 << endl;
43     cout << "Your basket weight is = " << sum << "kg";
44     return 0;
45 }
```

## Output



```
"C:\Users\2021e075\OneDrive - University of Jaffna\se\model1\bin\Debug\model1.exe"
Your sum is = 960
Please provide your name =
Eranda Jayasinghe
How many Bananas do you have?
2
How many Carrots do you have?
2
How many Mangoes do you have?
2
How many Dhal packets do you have?
2
Your name is = Eranda Jayasinghe
Your basket weight is = 1.92kg
Process returned 0 (0x0)   execution time : 14.424 s
Press any key to continue.
```

```
"C:\Users\2021e075\OneDrive - University of Jaffna\se\model1\bin\Debug\model1.exe"

Your sum is = 960
Please provide your name =
K.J.M.U.G.S.E. Jayasinghe
How many Bananas do you have?
3
How many Carrots do you have?
10
How many Mangoes do you have?
0
How many Dhal packets do you have?
2
Your name is = K.J.M.U.G.S.E. Jayasinghe
Your basket weight is = 2.76kg
Process returned 0 (0x0)   execution time : 11.661 s
Press any key to continue.
```