EC 2010 : Computer Programming Lab 02: Program Structure

MALHARA R.M.Y.S

2022/E/126

EC2010

2023/10/04

01)

a.

Management

◄ Projects | Symbols | Files ►
- Workspace
  - Lab02-2022E126
    - Sources
      - main.cpp

main.cpp

```cpp
// MALHARA R.M.Y.S

// 2022/E/126

// EC2010

//Group: C

// Lab: 02

// Program Description: [insert brief description here]

// Certificate of Authenticity:

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

// is entirely my own work.

#include <iostream>

using namespace std;

int main()
{
    cout << "Hello world!\nA\noop\nli\na\nr\n\\nn";
}
```

C:\Users\2022e126\Downloads\Lab02\Lab02-2022E126\bin\Debug\Lab02-2022E126.exe

```
Hello world!
A
oop
li
a
r
\nn
Process returned 0 (0x0)   execution time : 0.016 s
Press any key to continue.
```

b.

Management

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main.cpp

```cpp
// MALHARA R.M.Y.S

// 2022/E/126

// EC2010

//Group: C

// Lab: 02

// Program Description: [insert brief description here]

// Certificate of Authenticity:

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

// is entirely my own work.

#include <iostream>

using namespace std;

int main()
{
    cout << "Welcome to the Programming!"<<endl;
    cout << "It's going to be an interesting module."<<"\n";
}
```

C:\Users\2022e126\Downloads\Lab02\Lab02-2022E126\bin\Debug\Lab02-2022E126.exe

```
Welcome to the Programming!
It's going to be an interesting module.

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

c.

Management

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Workspace
Lab02-2022E126
Sources
main.cpp

main.cpp ✕

```cpp
1    // MALHARA R.M.Y.S
2
3    // 2022/E/126
4
5    // EC2010
6
7    //Group: C
8
9    // Lab: 02
10
11   // Program Description: [insert brief description here]
12
13   // Certificate of Authenticity:
14
15   // I certify that the code in the method function main of this project
16
17   // is entirely my own work.
18
19   #include <iostream>
20
21   using namespace std;
22
23   int main()
24   {
25       double length = 10;
26       cout<< length++ <<endl;
27       cout<< ++length <<endl;
28       cout<< ++length;
29       return 0;
```

C:\Users\2022e126\Downloads\Lab02\Lab02-2022E126\bin\Debug\Lab02-2022E126.exe

```
10
12
13
Process returned 0 (0x0)   execution time : 0.094 s
Press any key to continue.
```

02)
Code :-

```cpp
#include <iostream>

using namespace std;

int main()
{
    int Balance = 100000;
    int choise;
    int withdra_amount;
    int deposit;

    cout<<"1.Check Balance"<<endl;
    cout<<"2.Withdraw Money"<<endl;
    cout<<"3.Deposit Money"<<endl;
    cout<<"4.Exit"<<endl;

    cout<<"Enter your choise (1-4):";
    cin>>choise;

    if (choise == 1){
        cout<< "Your balance: $"<<Balance<<endl;
    }
    else if (choise == 2){

        cout << "Enter the amount to withdraw:";
        cin >> withdra_amount;

        Balance = Balance - withdra_amount;

        cout<<"Withdrawal successful. Remaining balance: $"<<Balance<<endl;
    }
    else if (choise == 3){

        cout<<"Enter the amount to deposit:";
        cin>>deposit;

        Balance = Balance + deposit;

        cout<<"Deposit successful. New balance: $"<<Balance<<endl;

    }
    else if (choise == 4){

        cout<< "Exiting the ATM." <<endl;
    }


}
```

Outputs:-

```
C:\Users\2022e126\Downloads\Lab02\Lab02-2022E126\bin\Debug\Lab02-2022E126.exe                    —    □    ×

1.Check Balance
2.Withdraw Money
3.Deposit Money
4.Exit
Enter your choise (1-4):1
Your balance: $100000

Process returned 0 (0x0)    execution time : 8.190 s
Press any key to continue.
```

```
C:\Users\2022e126\Downloads\Lab02\Lab02-2022E126\bin\Debug\Lab02-2022E126.exe                    —    □    ×

1.Check Balance
2.Withdraw Money
3.Deposit Money
4.Exit
Enter your choise (1-4):2
Enter the amount to withdraw:5500
Withdrawal successful. Remaining balance: $94500

Process returned 0 (0x0)    execution time : 13.962 s
Press any key to continue.
```

```
C:\Users\2022e126\Downloads\Lab02\Lab02-2022E126\bin\Debug\Lab02-2022E126.exe                    —    □    ×

1.Check Balance
2.Withdraw Money
3.Deposit Money
4.Exit
Enter your choise (1-4):3
Enter the amount to deposit:6000
Deposit successful. New balance: $106000

Process returned 0 (0x0)    execution time : 6.228 s
Press any key to continue.
```

```
C:\Users\2022e126\Downloads\Lab02\Lab02-2022E126\bin\Debug\Lab02-2022E126.exe                    —    □    ×

1.Check Balance
2.Withdraw Money
3.Deposit Money
4.Exit
Enter your choise (1-4):4
Exiting the ATM.

Process returned 0 (0x0)    execution time : 3.016 s
Press any key to continue.
```

03)

Code :-

```cpp
#include <iostream>

using namespace std;

int main()
{
    double r;
    double h;
    double v;
    double pi=3.14;


    cout<<"Enter the radius of a Circular cone:";
    cin>>r;

    cout<<"Enter the height of a Circular cone:";
    cin>>h;

    v=(pi*r*r*h)/3;

    cout<<"Volume of the Circular cone is = "<<v<<endl;


}
```
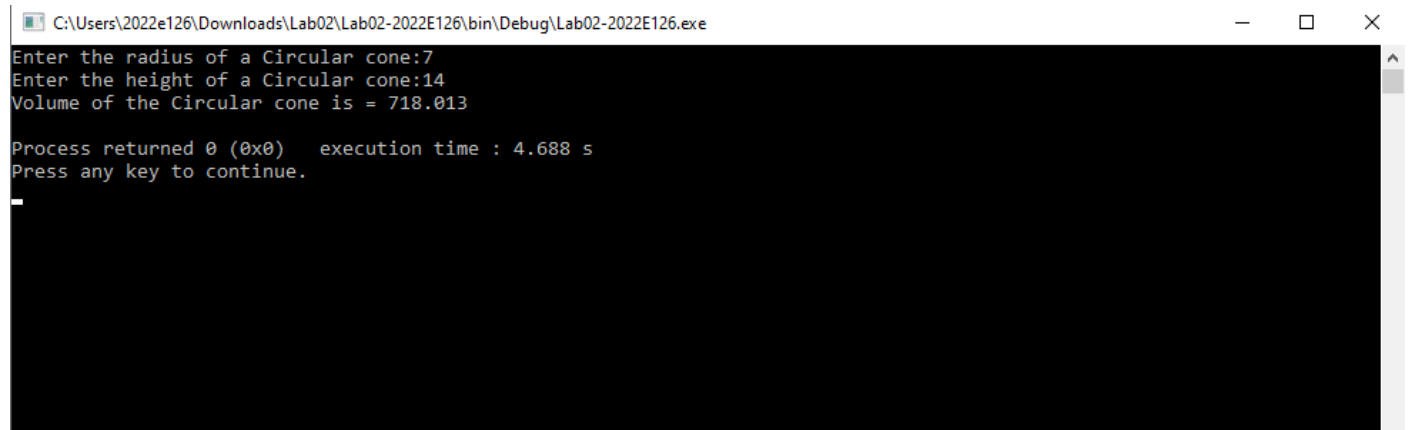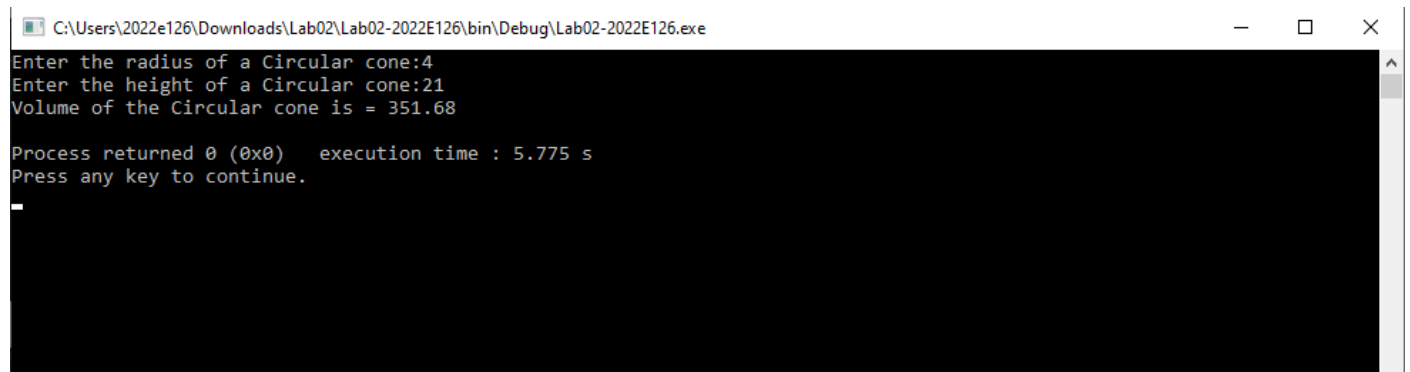
Outputs :-

```
C:\Users\2022e126\Downloads\Lab02\Lab02-2022E126\bin\Debug\Lab02-2022E126.exe                    —    □    ×

Enter the radius of a Circular cone:7
Enter the height of a Circular cone:14
Volume of the Circular cone is = 718.013

Process returned 0 (0x0)    execution time : 4.688 s
Press any key to continue.
```

```
C:\Users\2022e126\Downloads\Lab02\Lab02-2022E126\bin\Debug\Lab02-2022E126.exe                    —    □    ×

Enter the radius of a Circular cone:4
Enter the height of a Circular cone:21
Volume of the Circular cone is = 351.68

Process returned 0 (0x0)    execution time : 5.775 s
Press any key to continue.
```