

RIPHAH INTERNATIONAL UNIVERSITY

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SE-2 OOP LAB

29 AUG,2024

TASK 01

The screenshot displays a C++ IDE with the following components:

- Code Editor:** Contains the implementation of an `Employee` class. The class has private attributes `name`, `jobTitle`, and `salary`. It includes a constructor, a `updateSalary` method, and a `displayDetails` method. The `main` function creates an `Employee` object, displays its details, updates the salary, and displays the details again.
- Output Window:** Shows the execution results, including the initial and updated employee details and a message indicating the process exited after 0.07316 seconds.
- Compiler Output:** Shows 0 errors and 0 warnings, with the output filename and size.

```
1 #include<iostream>
2 using namespace std;
3
4 class Employee {
5 private:
6     string name;
7     string jobTitle;
8     double salary;
9
10 public:
11     Employee(string empName, std::string empJobTitle, double empSalary) {
12         name = empName;
13         jobTitle = empJobTitle;
14         salary = empSalary;
15     }
16     void updateSalary(double newSalary) {
17         salary = newSalary;
18     }
19     void displayDetails() {
20         cout << "Name: " << name << endl;
21         cout << "Job Title: " << jobTitle << endl;
22         cout << "Salary: " << salary << endl;
23     }
24 };
25
26 int main() {
27     Employee emp1("zara ", "Manager", 60000);
28     cout << "Employee Details before salary update:" << endl;
29     emp1.displayDetails();
30     emp1.updateSalary(65000);
31     cout << "Employee Details after salary update:" << endl;
32     emp1.displayDetails();
33 }
34
35 return 0;
```

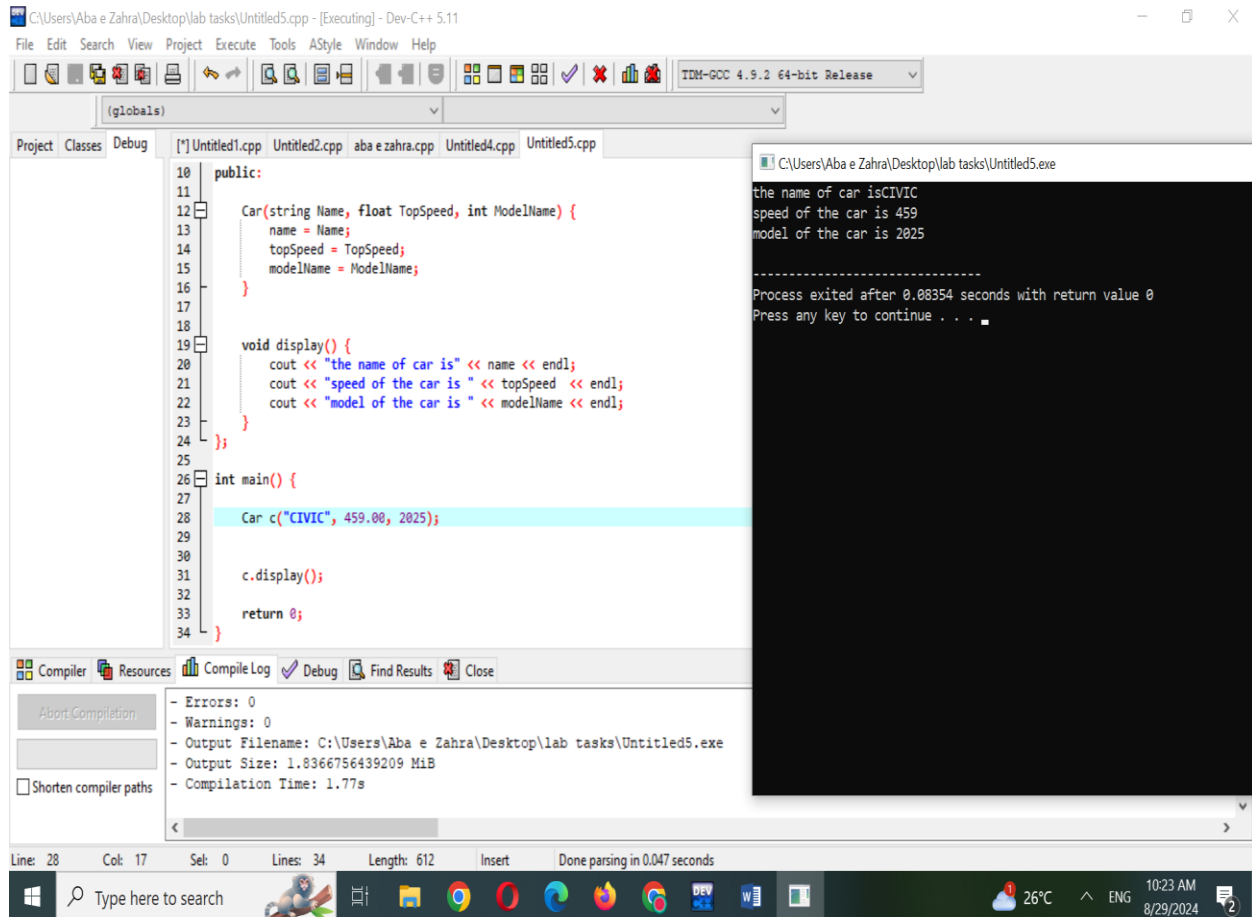
Employee Details before salary update:
Name: zara
Job Title: Manager
Salary: 60000

Employee Details after salary update:
Name: zara
Job Title: Manager
Salary: 65000

Process exited after 0.07316 seconds with return value 0
Press any key to continue . . .

Compiler Output:
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Aba e Zahra\Desktop\lab tas
- Output Size: 1.83750534057617 MiB
- Compilation Time: 0.64s

TASK 02



TASK 03

C:\Users\Aba e Zahra\Desktop\lab tasks\Untitled6.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug ["] Untitled1.cpp Untitled2.cpp aba e zahra.cpp Untitled4.cpp Untitled5.cpp Untitled6.cpp

```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4 class Laptop {
5 private:
6     std::string brand;
7     std::string model;
8     std::string serial;
9     std::string color;
10    double price;
11    double processorSpeed;
12    int RAM;
13    double screenSize;
14 public:
15
16
17    Laptop() {
18        brand = "";
19        model = "";
20        serial = "";
21        color = "";
22        price = 0.0;
23        processorSpeed = 0.0;
24        RAM = 0;
25        screenSize = 0.0;
26    }
27
28    void setBrand(std::string b) { brand = b; }
29    void setModel(std::string m) { model = m; }
30    void setSerial(std::string s) { serial = s; }
31    void setColor(std::string c) { color = c; }
32    void setPrice(double p) { price = p; }
33    void setProcessorSpeed(double ps) { processorSpeed = ps; }
34    void setRAM(int r) { RAM = r; }
35    void setScreenSize(double ss) { screenSize = ss; }
36
37    void upgradeRAM(int additionalRAM) { RAM += additionalRAM; }
38
39    void displayDetails() {
40        std::cout << "Brand: " << brand << std::endl;
41        std::cout << "Model: " << model << std::endl;
42        std::cout << "Serial: " << serial << std::endl;
43        std::cout << "Color: " << color << std::endl;
44        std::cout << "Price: " << price << std::endl;
45        std::cout << "Processor Speed: " << processorSpeed << " GHz" << std::endl;
46        std::cout << "RAM: " << RAM << " GB" << std::endl;
47        std::cout << "Screen Size: " << screenSize << " inches" << std::endl;
48    }
49 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Completion

Errors: 0
Warnings: 0
Output Filename: C:\Users\Aba e Zahra\Desktop\lab tasks\Untitled6.exe
Output Size: 1.84028625488281 MiB
Compilation Time: 0.78s

Shorten compiler paths

Line: 6 Col: 23 Sel: 0 Lines: 73 Length: 2030 Insert Done parsing in 0.032 seconds

Type here to search

Mat... ENG 10:37 AM 8/29/2024

C:\Users\Aba e Zahra\Desktop\lab tasks\Untitled6.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug ["] Untitled1.cpp Untitled2.cpp aba e zahra.cpp Untitled4.cpp Untitled5.cpp Untitled6.cpp

```
25     screenSize = 0.0;
26 }
27
28 void setBrand(std::string b) { brand = b; }
29 void setModel(std::string m) { model = m; }
30 void setSerial(std::string s) { serial = s; }
31 void setColor(std::string c) { color = c; }
32 void setPrice(double p) { price = p; }
33 void setProcessorSpeed(double ps) { processorSpeed = ps; }
34 void setRAM(int r) { RAM = r; }
35 void setScreenSize(double ss) { screenSize = ss; }
36
37 void upgradeRAM(int additionalRAM) { RAM += additionalRAM; }
38
39 void displayDetails() {
40     std::cout << "Brand: " << brand << std::endl;
41     std::cout << "Model: " << model << std::endl;
42     std::cout << "Serial: " << serial << std::endl;
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44     std::cout << "Price: " << price << std::endl;
45     std::cout << "Processor Speed: " << processorSpeed << " GHz" << std::endl;
46     std::cout << "RAM: " << RAM << " GB" << std::endl;
47     std::cout << "Screen Size: " << screenSize << " inches" << std::endl;
48 }
49 }
```

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