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QUESTIO#1

The screenshot shows the Visual Studio IDE with a C++ project named 'T11.cpp'. The code defines a struct 'Point' with two integer members, 'x' and 'y'. In the 'main' function, a 'Point' object 'p' is initialized with values (10, 20). The program then prints the coordinates of 'p' and returns 0. The output window shows the result: 'Point: (10, 20)'. The compilation results pane at the bottom indicates that the program compiled successfully with 0 errors and 0 warnings.

```
1 #include <iostream>
2 using namespace std;
3
4 struct Point {
5     int x, y;
6 };
7
8 int main() {
9     Point p = {10, 20}; // Initialize
10    cout << "Point: (" << p.x << ", " << p.y << ")" << endl;
11    return 0;
12 }
13
14
```

Output: Point: (10, 20)

Process exited after 0.2675 seconds with return value 0
Press any key to continue . . .

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\deli\Desktop\T11.exe
- Output Size: 1,832,208 bytes (1.8 MB)
- Compilation Time: 0.79s

QUESTION#2

The screenshot shows the Visual Studio IDE with a C++ project named 'T11.cpp'. The code defines a struct 'Book' with two members: a string 'title' and a float 'price'. In the 'main' function, a 'Book' object 'b' is initialized with the title 'C++ Programming' and a price of 499.99. The program then prints the title and price of 'b' and returns 0. The output window shows the result: 'Title: C++ Programming, Price: \$499.99'. The compilation results pane at the bottom indicates that the program compiled successfully with 0 errors and 0 warnings.

```
1 #include <iostream>
2 using namespace std;
3
4 struct Book {
5     string title;
6     float price;
7 };
8
9 int main() {
10    Book b = {"C++ Programming", 499.99}; // Initialize
11    cout << "Title: " << b.title << ", Price: $" << b.price << endl;
12    return 0;
13 }
14
```

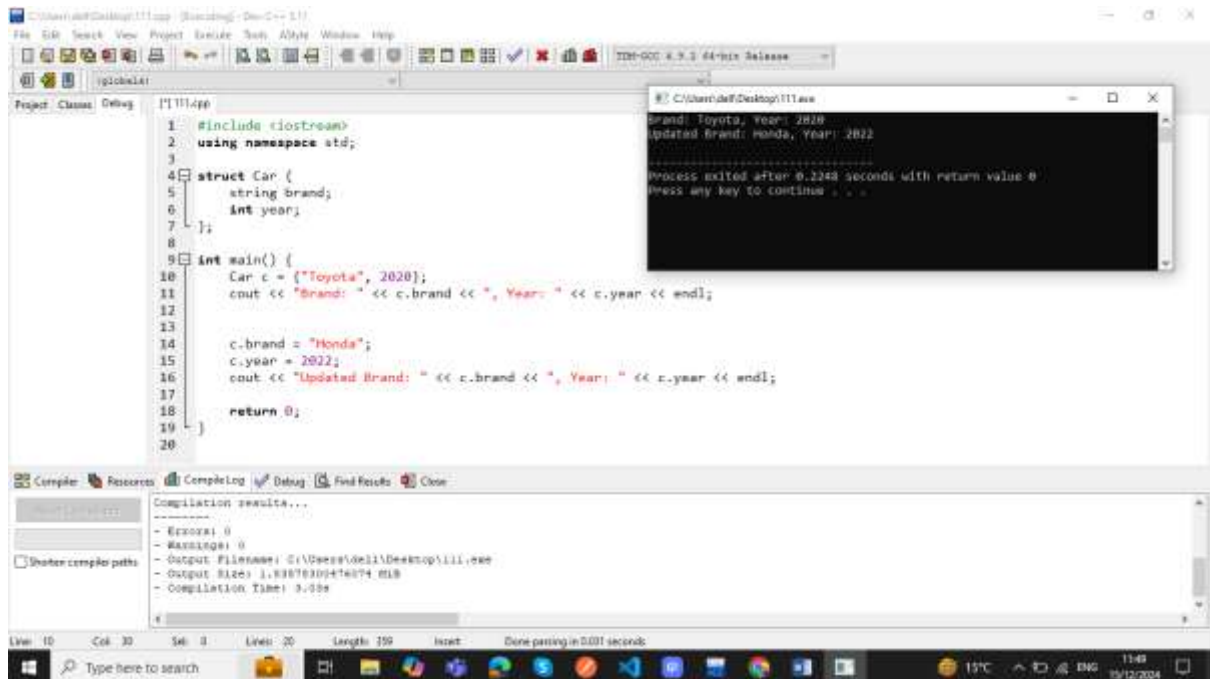
Output: Title: C++ Programming, Price: \$499.99

Process exited after 0.1189 seconds with return value 0
Press any key to continue . . .

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\deli\Desktop\T11.exe
- Output Size: 1,832,208 bytes (1.8 MB)
- Compilation Time: 12.82s

QUESTION#3

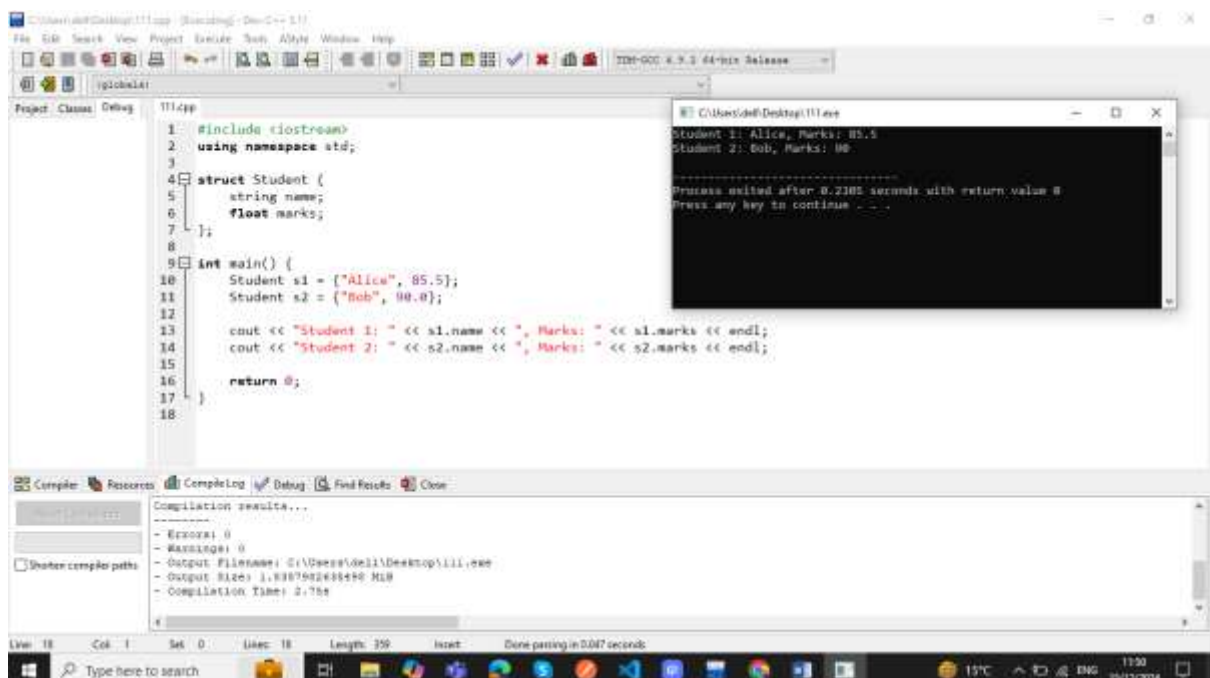


```
1 #include <iostream>
2 using namespace std;
3
4 struct Car {
5     string brand;
6     int year;
7 };
8
9 int main() {
10     Car c = {"Toyota", 2020};
11     cout << "Brand: " << c.brand << ", Year: " << c.year << endl;
12
13     c.brand = "Honda";
14     c.year = 2022;
15     cout << "Updated Brand: " << c.brand << ", Year: " << c.year << endl;
16
17     return 0;
18 }
```

Brand: Toyota, Year: 2020
Updated Brand: Honda, Year: 2022
.....
Process exited after 0.1248 seconds with return value 0
Press any key to continue . . .

Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\deli\Desktop\111.exe
- Output Size: 1,838,730,947,4074 MB
- Compilation Time: 3.39s

QUESTION#4

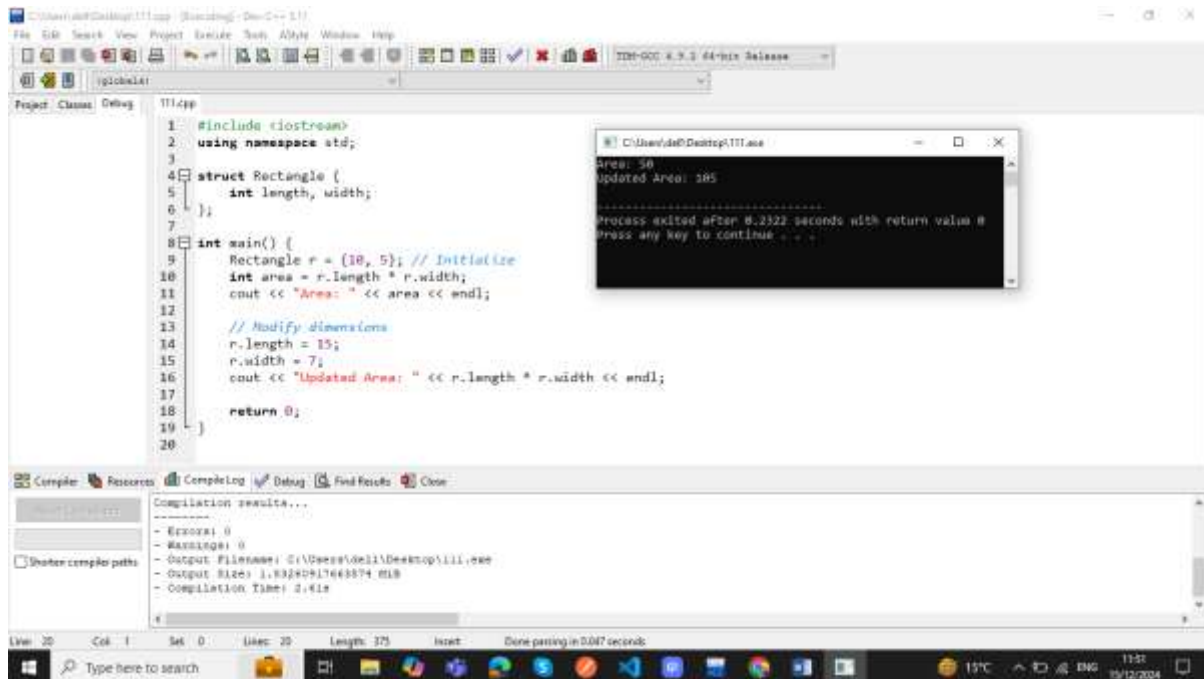


```
1 #include <iostream>
2 using namespace std;
3
4 struct Student {
5     string name;
6     float marks;
7 };
8
9 int main() {
10     Student s1 = {"Alice", 85.5};
11     Student s2 = {"Bob", 90.0};
12
13     cout << "Student 1: " << s1.name << ", Marks: " << s1.marks << endl;
14     cout << "Student 2: " << s2.name << ", Marks: " << s2.marks << endl;
15
16     return 0;
17 }
18
```

Student 1: Alice, Marks: 85.5
Student 2: Bob, Marks: 90
.....
Process exited after 0.2385 seconds with return value 0
Press any key to continue . . .

Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\deli\Desktop\111.exe
- Output Size: 1,838,750,268,440 MB
- Compilation Time: 2.78s

QUESTION#5

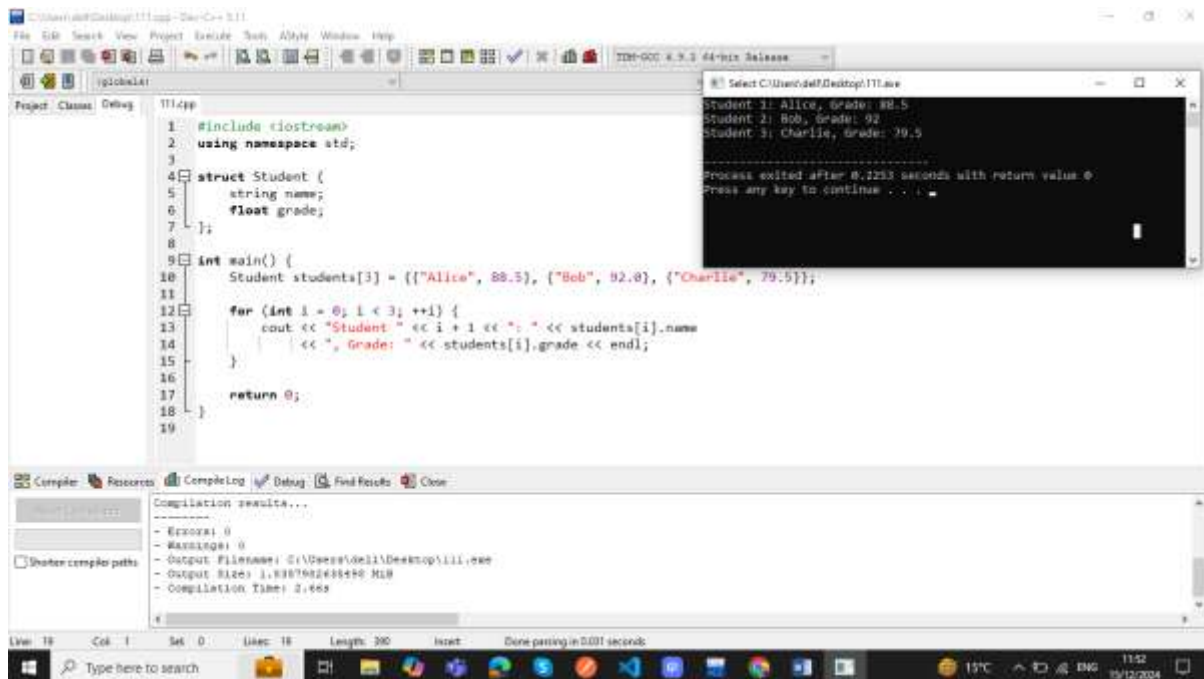


```
1 #include <iostream>
2 using namespace std;
3
4 struct Rectangle {
5     int length, width;
6 };
7
8 int main() {
9     Rectangle r = {10, 5}; // Initialize
10    int area = r.length * r.width;
11    cout << "Area: " << area << endl;
12
13    // Modify dimensions
14    r.length = 15;
15    r.width = 7;
16    cout << "Updated Area: " << r.length * r.width << endl;
17
18    return 0;
19 }
```

Output:

```
Area: 50
Updated Area: 105
Process exited after 0.2322 seconds with return value 0
Press any key to continue . . .
```

QUESTION#6

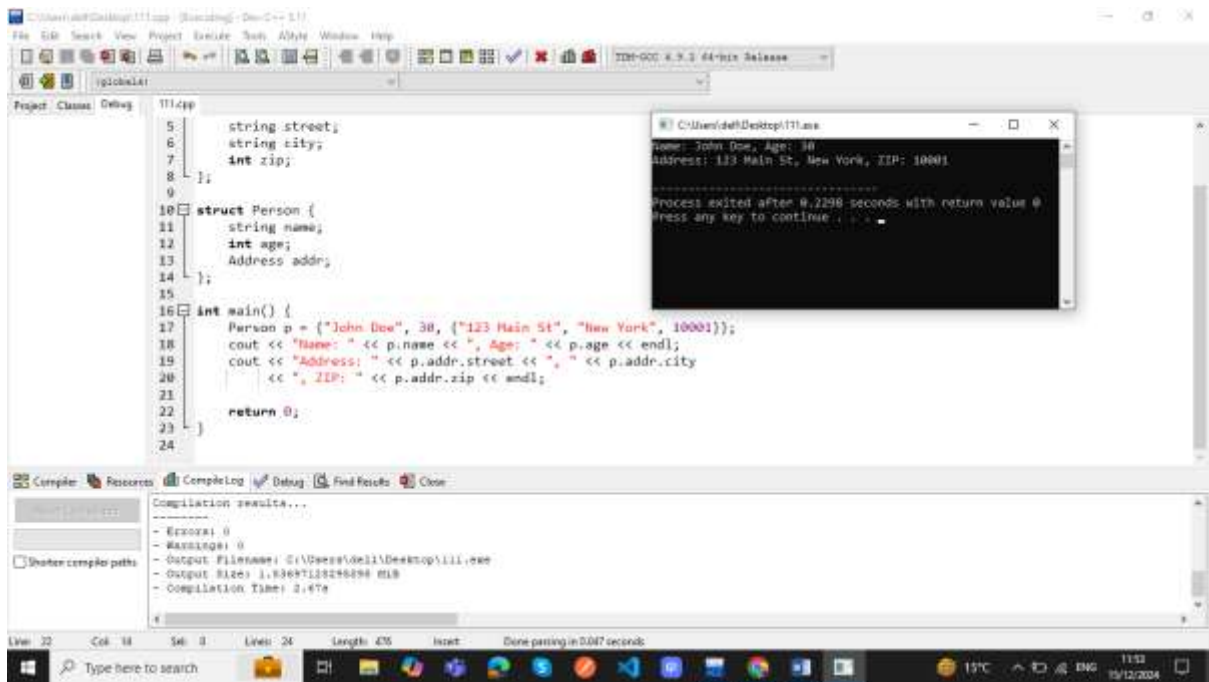


```
1 #include <iostream>
2 using namespace std;
3
4 struct Student {
5     string name;
6     float grade;
7 };
8
9 int main() {
10    Student students[3] = {"Alice", 88.5}, {"Bob", 92.0}, {"Charlie", 79.5};
11
12    for (int i = 0; i < 3; ++i) {
13        cout << "Student " << i + 1 << ": " << students[i].name
14              << ", Grade: " << students[i].grade << endl;
15    }
16
17    return 0;
18 }
```

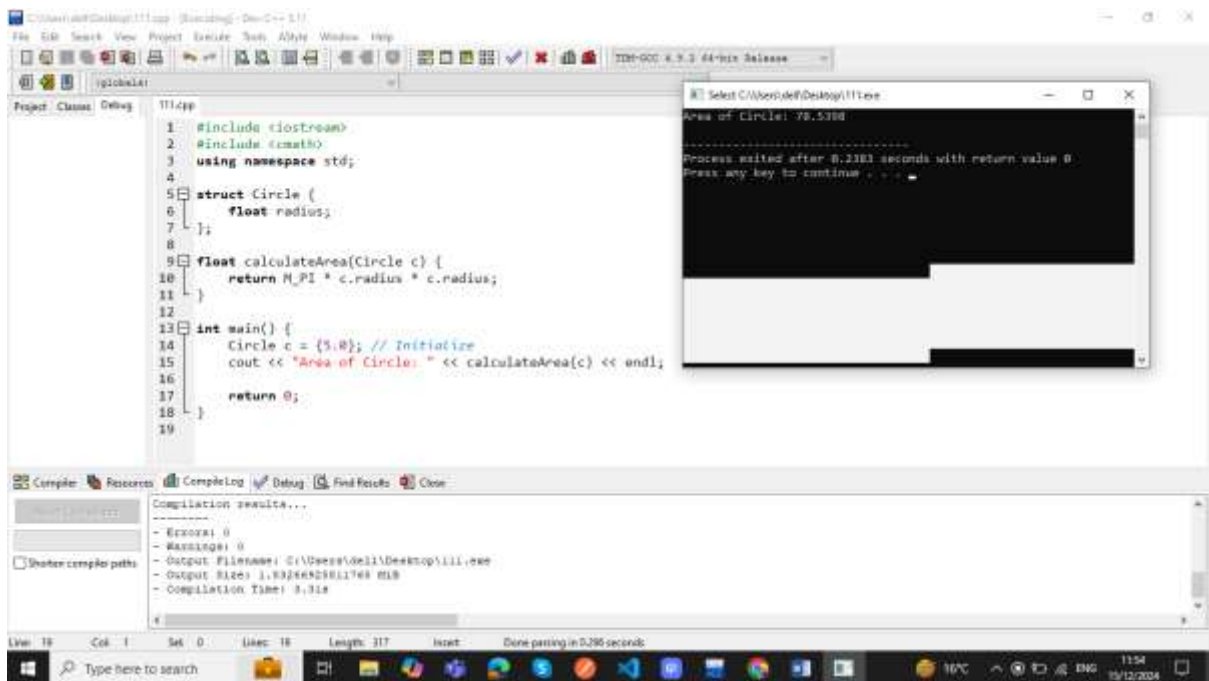
Output:

```
Student 1: Alice, Grade: 88.5
Student 2: Bob, Grade: 92
Student 3: Charlie, Grade: 79.5
Process exited after 0.2233 seconds with return value 0
Press any key to continue . . .
```

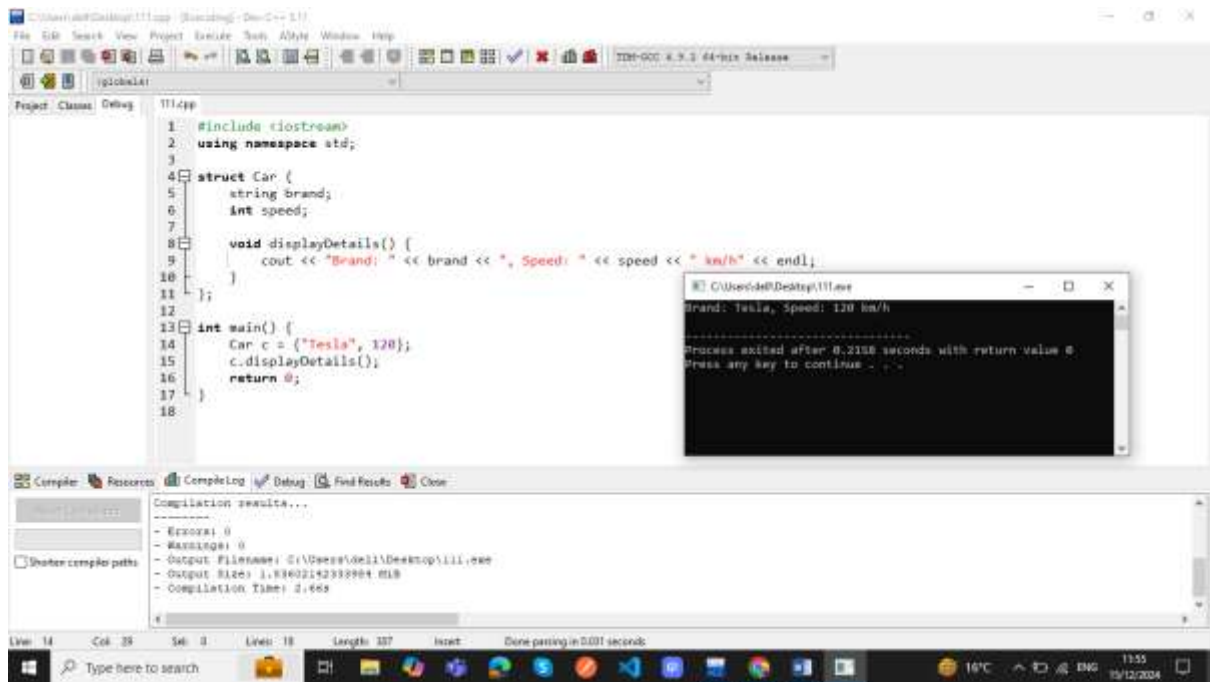
QUESTION#7



QUESTION#8



QUESTION#9



QUESTION#10

