



C++ Assignments | Pointers | Week 4

Q1 : Write a program to find the product of two numbers using pointers.

A screenshot of a C++ IDE (Visual Studio Code) with a dark theme. The Explorer panel on the left shows a project structure with folders 'area' and 'pointer', and various C++ files. The 'product.cpp' file is open in the editor, showing the following code:

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     int x,y;
5     cin>>x;
6     cin>>y;
7     int* p=&x;
8     int* p2=&y;
9     cout<< (*p)*(*p2);
10 }
```

The TERMINAL panel at the bottom shows the command to compile and run the program: `cd "/Users/sushantsh.../pointer/" && g++ product.cpp -o product && "/Users/sushantsh.../product"`. The status bar at the bottom indicates the current line and column: 'Ln 9, Col 16'.

Q2 : int *p, q;

1. p is a pointer and q is an integer.
2. p and q both are pointers.
3. P and q both are integers.
4. Syntax is incorrect.

Ans:- **1.p is a pointer and q is an integer.**

Q3: Find the output of the following code snippet.

```
int a = 10, b = 20;
```

```
int *ptr = &a;
b = *ptr + 1;
ptr = &b;
cout << *ptr << ' ' << a << ' ' << b;
```

1. 11 11 10

2. 10 10 10

3. 11 10 11

4. 10 11 10

Solution: 3. 11 10 11

Here value b is update by value of a and post increment of it.

And pointer get update by the address of b.

Q4: Find the output of the following code snippet.

```
int a = 15, b = 20;
int *ptr = &a;
int *ptr2 = &b;
*ptr = *ptr2;
```

1. ptr now points to b

2. ptr2 now points to a

3. a gets value of b

4. b gets value of a

Ans: 3. a gets value of b .output of a and b is 20 20.

Q5: Is the following program snippet correct?

```
int a = 10, b = 20;
int *ptr;
*ptr = 5;
```

Ans: _

Program is correct but there is a segmentation fault in it. It provide a runtime error because there has no any output of it.