

C++ Assignments | Pointers | Week 4

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

```
#include<iostream>

using namespace std;

int main() {

    int a,b;

    cout<<"enter value of a: ";

    cin>>a;

    cout<<"enter value of b: ";

    cin>>b;

    int* p1=&a;

    int* p2=&b;

    int product=(*p1) * (*p2) ;

    cout<<product;

}
```

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.

Solution:

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 :

11 10 11

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

Solution :

a gets the value of b

Q5: Is the following program snippet correct?

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

Solution :

The program is correct but ptr will have a garbage address