**Assignment**

**Assignment 1:**

What will happen in this code?

     int a = 100, b = 200;

     int \*p = &a, \*q = &b;

     p = q;

[**A.**](http://javascript:%20void(0)/) b is assigned to a

[**B.**](http://javascript:%20void(0)/) p now points to b

[**C.**](http://javascript:%20void(0)/) a is assigned to b

[**D.**](http://javascript:%20void(0)/) q now points to a

Answer: B. P now points to b

**Assignment 2:**

What is meaning of following declaration?

int(\*p[5])();

[**A.**](http://javascript:%20void(0)/) p is pointer to function.

[**B.**](http://javascript:%20void(0)/) p is array of pointer to function

[**C.**](http://javascript:%20void(0)/) p is pointer to such function which return type is array.

[**D.**](http://javascript:%20void(0)/) p is pointer to array of function.

Answer: B. p is array of pointer to function

Assignment 3:

Create a 2D pointer array by taking user input using dynamic memory concept.

**#include <iostream>**

**using namespace std;**

**int main()**

**{**

**int m, n, k = 0;**

**cout << "Enter the size of the row: " << endl;**

**cin>>m;**

**cout << "Enter the size of the coloumn: " << endl;**

**cin>>n;**

**int\* arr = new int[m \* n];**

**for (int i = 0; i < m; i++) {**

**for (int j = 0; j < n; j++) {**

**\*(arr + i \* n + j) = ++k;**

**}**

**}**

**for (int i = 0; i < m; i++) {**

**for (int j = 0; j < n; j++) {**

**cout << \*(arr + i \* n + j)<< " ";**

**}**

**cout << endl;**

**}**

**delete[] arr;**

**return 0;**

**}**

