RIPHAH
INTERNATIONAL UNIVERSITY

FACULTY OF COMPUTING

SE – 3

ASSIGNMENT - 01

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SUBJECT: Data Structure and algorithm Lab

TASK 1:

```cpp
#include <iostream>
using namespace std;

// Function to swap two integers using pointers
void swap(int *a, int *b) {
    int temp = *a;
    *a = *b;
    *b = temp;
}

int main() {
    int x = 5, y = 10;

    cout << "Before swapping:" << endl;
    cout << "x = " << x << ", y = " << y << endl;

    // Call the swap function
    swap(&x, &y);

    cout << "After swapping:" << endl;
    cout << "x = " << x << ", y = " << y << endl;

    return 0;
}
```

TASK 2:

```cpp
#include <iostream>
using namespace std;
```

```cpp
int main() {
    int arr[5] = {10, 20, 30, 40, 50};
    int *ptr = arr;   // pointer points to the first element of the array

    cout << "Array elements are:" << endl;

    for (int i = 0; i < 5; i++) {
        cout << *(ptr + i) << endl;
    }

    return 0;
}
```