#### LAB REPORT NO 8



## Spring 2020

## **CSE102L Computer Programming Lab**

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Class Section: A

"On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work."

#### Submitted to:

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1. Write a C++ program where you take two values in two variables from user, add the values of the two variables and put it into a third variable using a pointer. you must you only one pointer.

```
#include<iostream>
using namespace std;
void add(int a, int b, int *c);
int main(){
int a,b,c;
cout<<"Enter a number :"<<endl;</pre>
cin>>a;
cout<<"Enter another number :"<<endl;</pre>
cin>>b;
add (a,b,&c);
return 0;
void add(int a,int b,int *c){
```

2. Write a C++ program where you take two values from user in two variables, swaps the values of the variables using references (&).

```
#include<iostream>
using namespace std;
void myswap(int *x,int *y);
int main(){
int x,y;
```

```
cout<<"Enter the value of x and y :"<<endl;</pre>
    cin>>x>>y;
cout<<"Before swaping x = "<<x<<endl;</pre>
     cout<<"Before swaping y = "<<y<endl;</pre>
     myswap( &x ,&y);
     return 0;
}
void myswap(int *x, int *y){
int temp=*x;
    *x=*y;
    *y=temp;
    cout<<"\nAfter swaping x = "<<*x<<endl;</pre>
     cout<<"After swaping y = "<<*y<<endl;</pre>
}
```

3. Write a C++ program where you take a value in a variable from use increment that value by 5 using a pointer in a for loop and display its play using pointer.

```
#include<iostream>
using namespace std;
main() {
    int n, *a = &n;
    cout<<"Input a number: ";</pre>
```

```
cin>>n;

for(int i = 1; i <= 5; i++) {

    (*a)++;
}

cout<<*a;
}

much a number: 100

Process exited after 2.438 seconds with return value 0

Press any key to continue . . . .
```

4. Write a C++ program where you take your first name from user in a string variable using pointer edit that string to your last name and then display that string variable (your last name must be hard coded in a separate string variable).

```
#include<iostream>
#include<string.h>
using namespace std;
```

```
main() {
    string a, *pointer = &a, b = "Ali khan";
    cout<<"First name: ";
    cin>>a;
    *pointer = b;
    cout<<"value stored in a = "<<a;
}</pre>
```

5. Display 1 to n numbers using pointer, user must enter the n.

```
#include<iostream>
using namespace std;
main() {
    int a, n = 1, *b = &n;
    cout<<"Input: ";
    cin>>a;
    while(*b <= a) {
        cout<<*b<<" ";
        (*b)++;
    }
}</pre>
```

# 6. Add even numbers from 1 to n using pointers user must enter n.

## Code:

```
#include<iostream>
using namespace std;
main() {
    int a, b = 2, *c = &b, s = 0, *p = &s;
    cout<<"Enter a number: ";
    cin>>a;
    while(*c <= a) {
        *p += *c;</pre>
```