

**Name: Tanzeela Asghar**

**Submitted To : Sir Rehan Ahmed**

**Roll No : 2021-BSE-032**

## **LAB #11**

---

### **TASK 1:**

#### **SAMPLE PROGRAM 1:**

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

int _tmain(int argc, _TCHAR* argv[])
{
int *p1,*p2;
int
a=10,b=20;
p1=&a;
p2=&b;
cout<<" value of a= "<<a;
cout<<" \nvlaue of b= "<<b;
cout<<" \nvalue of p1= "<<p1;
cout<<" \nvalue of p2= "<<p2;
cout<<" \nvalue of &a= "<<&a;
cout<<" \nvalue of &b ="<<&b;
cout<<" \nvalue of *p1 = "
<<*p1; cout<<" \nvalue of *p2
="<<*p2; system("pause");
return 0;
```

}

## **OUTPUT:**

```
value of a= 10
value of b= 20
value of p1= 0044F81C
value of p2= 0044F810
value of &a= 0044F81C
value of &b =0044F810
value of *p1 = 10
value of *p2 =20Press any key to continue . . .
```

## **SAMPLE PROGRAM 2:**

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

int _tmain(int argc, _TCHAR* argv[])
{
int a=5,b=10,c,*p1,*p2,*s;
p1=&a;
p2=&b;
s=&c;
*s=*p1+*p2;
cout<<"addition of values at adress =" <<*s;
system("pause");
return 0;
}
```

## **OUTPUT:**

```
addition of values at adress =15Press any key to continue .
```

### **SAMPLE PROGRAM 3:**

```
#include "stdafx.h"
#include<iostream>
using namespace
std;
int _tmain(int argc,
_TCHAR* argv[])
{
int i=3,*j,**k;
j=&i;
k=&j;
cout<<"\n Address of i = "<<&i;
cout<<"\n Address of i = "<<j;
cout<<"\n Address of i = "<<*k;
cout<<"\n Address of j = "<<&j;
cout<<"\n Adress of j = "<<k;
cout<<"\n Adress of k = "<<&k;
cout<<"\n Value of j = "<<j;
cout<<"\n Value of k = "<<k;
cout<<"\n Value of i = "<<i;
cout<<"\n Value of i = "<<*(&i);
cout<<"\n Value of i = "<<*j;
cout<<"\n Value of i = "<<**k;

system("pause")
; return 0;
}
```

### **OUTPUT:**

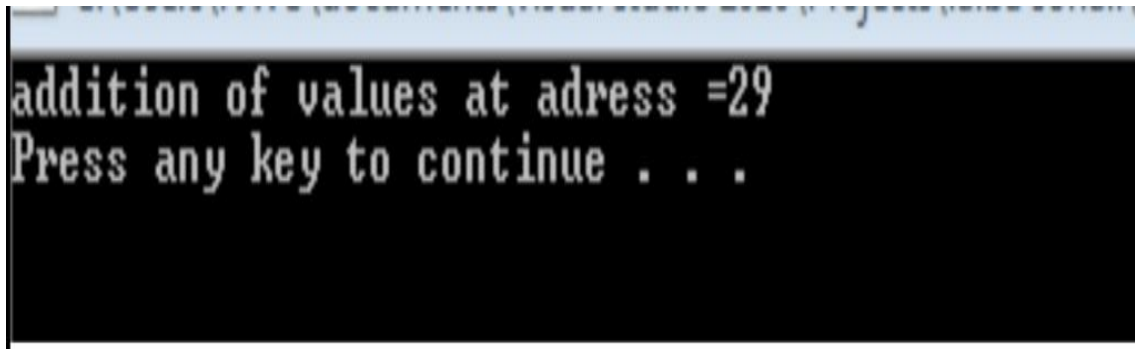
```
Address of i = 0033FBE0
Address of i = 0033FBE0
Address of i = 0033FBE0
Address of j = 0033FBD4
Address of j = 0033FBD4
Address of k = 0033FBC8
Value of j = 0033FBE0
Value of k = 0033FBD4
Value of i = 3
Value of i = 3
Value of i = 3
Value of i = 3Press any key to continue . . .
```

## **TASK 2:**

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

int _tmain(int argc, _TCHAR* argv[])
{
int a=5,b=10,c=4,d=3,e=7,f,*p1,*p2,*p3,*p4,*p5,*s;
p1=&a;
p2=&b;
p3=&c;
p4=&d;
p5=&e;
s=& f;
*s=*p1+*p2+*p3+*p4+*p5;
cout<<"addition of values at adress =" <<*s<<endl;
system("pause");
return 0;
}
```

## **OUTPUT:**



```
addition of values at adress =29
Press any key to continue . . .
```

### **TASK 3:**

```
#include "stdafx.h" #include<iostream> using namespace std; void
swap(int *a, int *b)
{
    int temp=*a;
    *a=*b;
    *b=temp;
}

int _tmain(int argc, _TCHAR* argv[])
{
    int a,b;
    cout<<"Enter two numbers ="<<endl;
    cin>>a>>b;
    cout<<"Before Swapping ="<<endl;
    cout<<"a ="<<a<<endl;
    cout<<"b ="<<b<<endl;
    swap(&a,&b);
    cout<<"After Swapping
    ="<<endl; cout<<"a
    ="<<a<<endl; cout<<"b
    ="<<b<<endl;

    system("pause")
    ; return 0;
}
```

### **OUTPUT:**

```
Enter two numbers =  
2  
5  
Before Swapping =  
a =2  
b =5  
After Swapping =  
a =5  
b =2  
Press any key to continue . . .
```

#### **TASK 4:**

```
#include "stdafx.h"  
#include<iostream>  
using namespace  
std;  
  
int _tmain(int argc, _TCHAR* argv[])  
{  
    int i, *max;  
    int arr[7];  
    cout<<"Enter the elements of array ="<<endl;  
    for(i=0;i<7;i++)  
        cin>>arr[i];  
    max=&arr[0];  
    for(i=0;i<7;i++)  
    {  
        if(*max<arr[i])  
            *max=arr[i];  
    }  
    cout<<" Maximum number ="<<*max<<endl;  
    system("pause");  
    return 0;  
}
```

#### **OUTPUT:**

```
Enter the elements of array =
3
4
5
7
4
3
6
Maximum number =7
Press any key to continue . . .
```

### **TASK 5:**

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

int _tmain(int argc, _TCHAR* argv[])
{
float a=3.5, b=6.7;
cout<<"a ="<<a<<endl;
cout<<"b
="<<b<<endl; float
*p=&a, *q=&b; float
**r=&p, **s=&q;
cout<<"SUM ="<<(*(*r)+*(*s))<<endl;
system("pause");
return 0;
}
```

### **OUTPUT:**

```
a =3.5
b =6.7
SUM =10.2
Press any key to continue . . .
```

### **TASK 6:**

```
#include "stdafx.h"
#include<iostream>
using namespace std;
void swap(int *a, int *b)
{
    int temp=*a;
    *a=*b;
    *b=temp;
}

int _tmain(int argc, _TCHAR* argv[])
{
    int num=2,i, *p1;
    p1=&num;
    cout<<"Table of 2 ="<<endl;
    for(i=1;i<=12;i++)
        cout<<num<<" * "<<i<<" = "<<(*p1*i)<<endl;
    system("pause");
    return 0;
}
```

### **OUTPUT:**



```
Table of 2 =  
2 * 1 = 2  
2 * 2 = 4  
2 * 3 = 6  
2 * 4 = 8  
2 * 5 = 10  
2 * 6 = 12  
2 * 7 = 14  
2 * 8 = 16  
2 * 9 = 18  
2 * 10 = 20  
2 * 11 = 22  
2 * 12 = 24  
Press any key to continue . . .
```