Bahria University, Karachi Campus



COURSE: CSC -113 Computer Programming Lab TERM: SPRING 2020, CLASS: BCE- 2A

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Submitted By:

ENGR SIDRA MUDASSAR Submitted To:

1. Initialize an integer array of 5 elements. Display values of all elements along with their addresses using pointers.

2. Write a program which uses a pointer variable pointing to three different integer values, one at a time. Alter the input integers by performing multiplication using the pointer variable and display the updated values.

```
8 #include <iostream>
  9 using namespace std;
10 int Mult(int *, int *,int *);
  11 int main(){
     int x,y,z;
  13 cout<<"Enter 1st Value:";</pre>
  14 cin>>x;
  15 cout<<"Enter 2nd Value:";</pre>
  16 cin>>y;
  17 cout<<"Enter 3rd value:";</pre>
  18 cin>>z;
      cout<<
             '....." <<endl <<endl;
     cout<<"The integer Multiplication of these numbers is:"<<Mult(&x,&y,&z)<<endl;
     cout<<endl <<endl;</pre>
  23
  24 int Mult(int *a, int *b,int *c){
  25 int Prod;
  26 Prod=(*a * *b * *c);
  27 return Prod;
  28 }
input
Enter 1st Value:5
Enter 2nd Value:7
Enter 3rd value:5
......Multiplication.....
```

```
Enter 1st Value:5
Enter 2nd Value:7
Enter 3rd value:5
......Multiplication.....

The integer Multiplication of these numbers is:175
....Program finished with exit code 0
Press ENTER to exit console.
```

3. Write a program which use one function that swap the values by reference

```
8 #include <iostream>
   9 using namespace std;
  10 void swap(int&, int&);
  12 int main()
 13 - {
             int x = 200, y = 80;
            cout << "Before swapping" << endl;
cout << "x = " << x << endl;
cout << "y = " << y << endl;</pre>
            swap(x, y);
cout << "\nAfter swapping" << endl;
cout << "x = " << x << endl;
cout << "y = " << y << endl;</pre>
             return 0;
  23 }
  25 void swap(int& n1, int& n2) {
             int temp;
             temp = n1;
             n1 = n2;
             n2 = temp;
  30 }
                                                                                input
```

```
Before swapping

x = 200

y = 80

After swapping

x = 80

y = 200

...Program finished with exit code 0

Press ENTER to exit console.
```

4. Write a program which uses two functions and passes pointer as an argument .the function getNumber takes an input from the user and stores it in the pointer variable. The function double value doubles the value of the same.

```
input
x = 4
y = 5
x = 8, y = 10
...Program finished with exit code 0
Press ENTER to exit console.
```

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