

CS-114 – Fundamental of Programing

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LAB MANUAL #7

LAB TASK

ME 15 Section B

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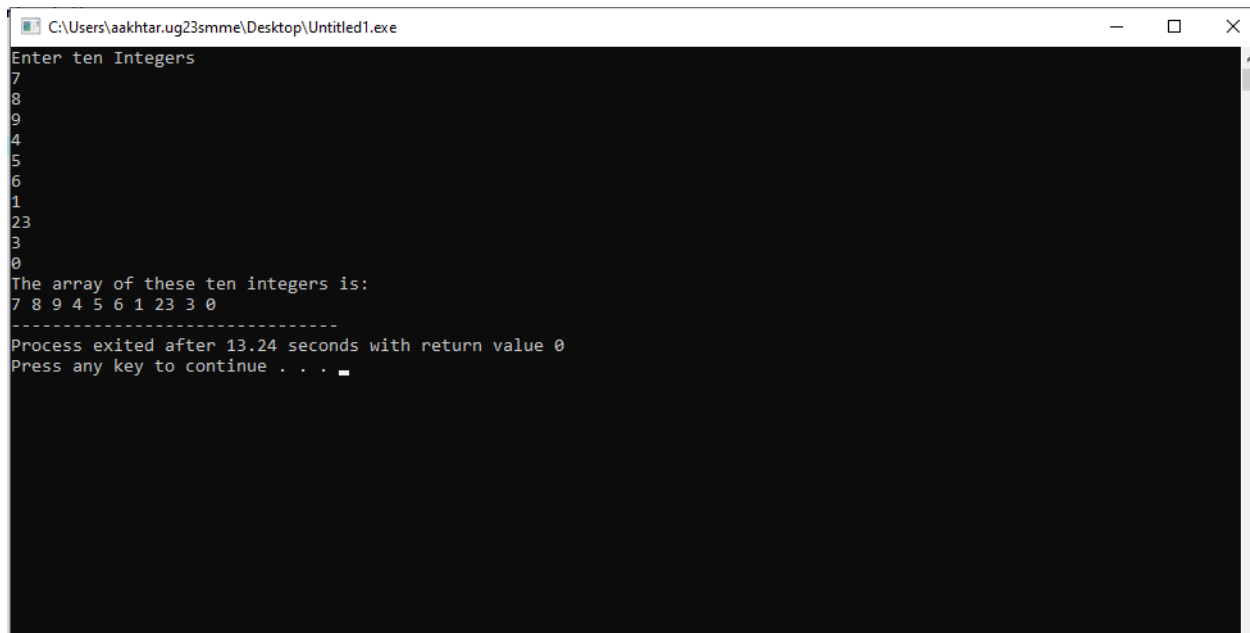
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Task 1:

Code:

```
#include<iostream>
using namespace std;
int main()
{
    int int_array[10], i;
    cout<<"Enter ten Integers"<<endl;
    for(i=0;i<10;i++){
        cin>>int_array[i];
    }
    cout<<"The array of these ten integers is: "<<endl;
    for(i=0;i<10;i++){
        cout<< int_array[i]<<" ";
    }
}
```

Output:



```
C:\Users\aaakhtar.ug23smme\Desktop\Untitled1.exe
Enter ten Integers
7
8
9
4
5
6
1
23
3
0
The array of these ten integers is:
7 8 9 4 5 6 1 23 3 0
-----
Process exited after 13.24 seconds with return value 0
Press any key to continue . . .
```

Task 2:

Code:

```
#include<iostream>
using namespace std;
int main()
{
    int int_array[5], i, sum=1, prod=1;
    cout<<"Enter five Integers of the array"<<endl;
    for(i=0;i<5;i++){
        cin>>int_array[i];
    }
    for(i=0;i<5;i++){
        sum+=int_array[i];
    }
    cout<<"The sum of all the elements of the array is: "<<sum<<endl;
    for(i=0;i<5;i++){
        prod*=int_array[i];
    }
    cout<<"The product of all the elements of the array is: "<<prod<<endl;
}
```

Output:



```
C:\Users\aaakhtar.ug23smme\Desktop\Untitled1.exe
Enter five Integers of the array
5
8
15
2
3
The sum of all the elements of the array is: 34
The product of all the elements of the array is: 3600
-----
Process exited after 9.073 seconds with return value 0
Press any key to continue . . .
```

Task 3:

Code:

```
#include<iostream>
using namespace std;
int main()
{
    int size, i, j, half;
    cout<<"Enter the diamond size(only odd numbers): "<<endl;
    cin>>size;
    char diam[size];
    half=size/2;
    for(i=0;i<size;i++)
        diam[i]=' ';
    for(i=0;i<=half;i++)
    {
        for(j=0;j<size;j++)
        {
            diam[half-i]='*';
            diam[half+i]='*';
            cout<<diam[j];

        }
        cout<<endl;
    }

    for(i=half;i>=0;i--)
    {
        for(j=0;j<size;j++)
        {
            diam[half-i]=' ';
            diam[half+i]=' ';
            cout<<diam[j];

        }
        cout<<endl;
    }
}
```

Output:

```
C:\Users\aaakhtar.ug23smme\Desktop\Untitled1.exe
Enter the diamond size(only odd numbers):
9
  *
 ***
 *****
 *******
*****
*****
  *****
   ***
    *

-----
Process exited after 2.202 seconds with return value 0
Press any key to continue . . .
```