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FUNDAMENTAL OF PROGRAMMING lab MANUAL 7

TASK 1:

```
#include<iostream>

using namespace std;

int main(){

    int arr[10];

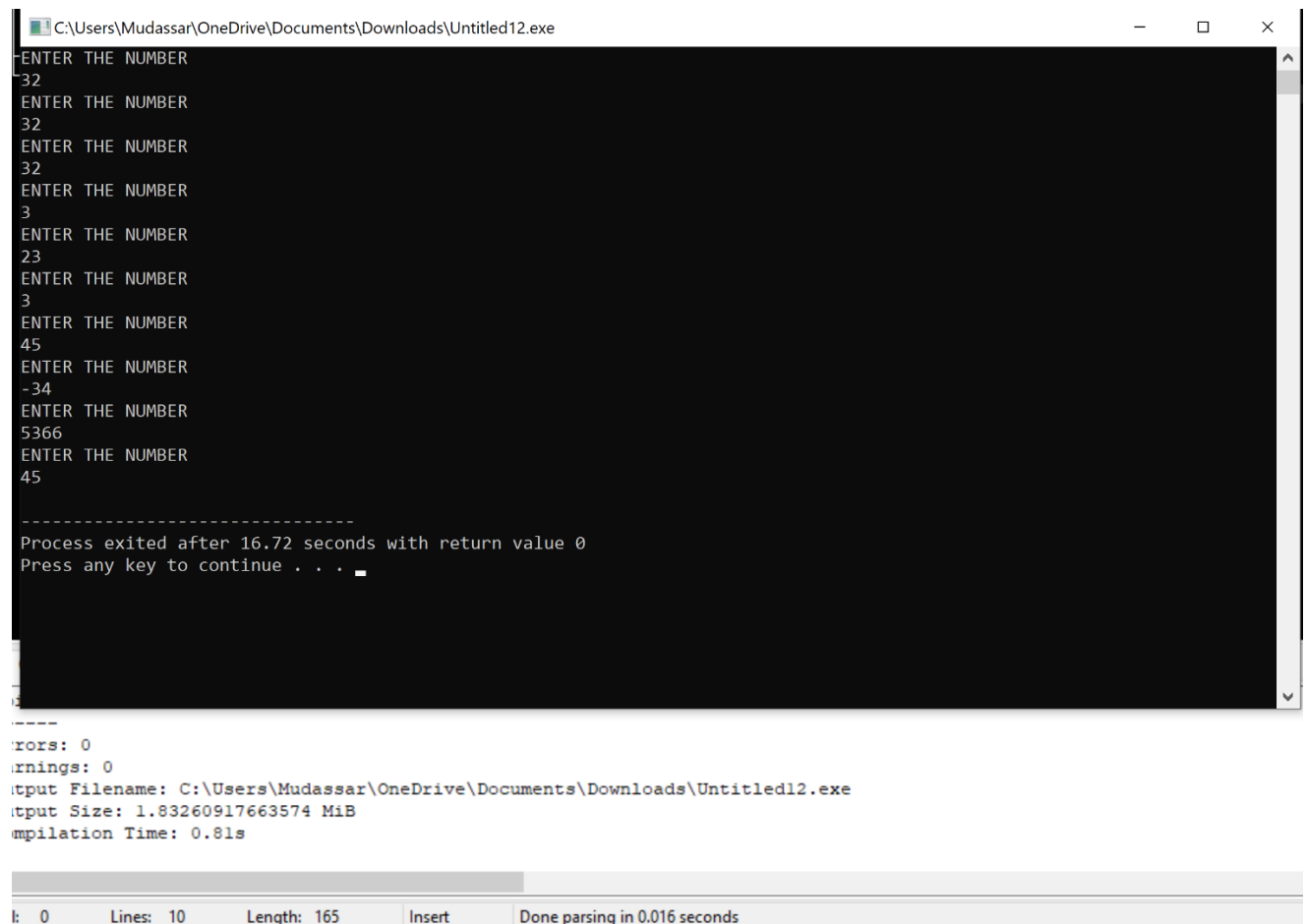
    for(int x=0;x<10;x++){

        cout<<"ENTER THE NUMBER"<<endl;

        cin>> arr[x];

    }return 0;

}
```



```
C:\Users\Mudassar\OneDrive\Documents\Downloads\Untitled12.exe
ENTER THE NUMBER
32
ENTER THE NUMBER
32
ENTER THE NUMBER
32
ENTER THE NUMBER
32
ENTER THE NUMBER
3
ENTER THE NUMBER
23
ENTER THE NUMBER
3
ENTER THE NUMBER
45
ENTER THE NUMBER
-34
ENTER THE NUMBER
5366
ENTER THE NUMBER
45

-----
Process exited after 16.72 seconds with return value 0
Press any key to continue . . .

-----
Errors: 0
Warnings: 0
Output Filename: C:\Users\Mudassar\OneDrive\Documents\Downloads\Untitled12.exe
Output Size: 1.83260917663574 MiB
Compilation Time: 0.81s

Line: 0    Lines: 10    Length: 165    Insert    Done parsing in 0.016 seconds
```

TASK 2:

```
#include<iostream>

using namespace std;

int main()
{
    int x,y;

    int arr[5];

    for(int i=0;i<5;i++){

        cout<<"ENTER THE NUMBER"<<endl;

        cin>> arr[i];

    }

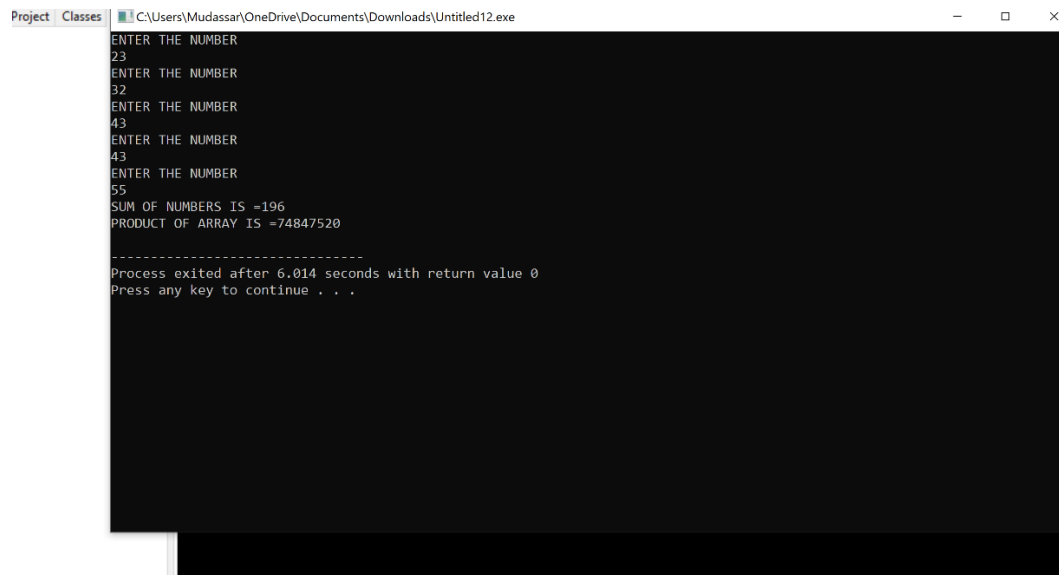
    x=arr[0]+arr[1]+arr[2]+arr[3]+arr[4];

    cout<<"SUM OF NUMBERS IS ="<<x<<endl;

    y=arr[0]*arr[1]*arr[2]*arr[3]*arr[4];

    cout<<"PRODUCT OF ARRAY IS ="<<y<<endl;

    return 0;}
```

A screenshot of a Windows command prompt window titled "Project - Classes" with the file path "C:\Users\Mudassar\OneDrive\Documents\Downloads\Untitled12.exe". The window shows the execution of a C++ program. It prompts the user to "ENTER THE NUMBER" five times, with inputs 23, 32, 43, 43, and 55. It then displays the "SUM OF NUMBERS IS -196" and the "PRODUCT OF ARRAY IS -74847520". At the bottom, it shows "Process exited after 6.014 seconds with return value 0" and "Press any key to continue . . .".

```
Project - Classes C:\Users\Mudassar\OneDrive\Documents\Downloads\Untitled12.exe
ENTER THE NUMBER
23
ENTER THE NUMBER
32
ENTER THE NUMBER
43
ENTER THE NUMBER
43
ENTER THE NUMBER
55
SUM OF NUMBERS IS -196
PRODUCT OF ARRAY IS -74847520
-----
Process exited after 6.014 seconds with return value 0
Press any key to continue . . .
```

TASK 3:

```
#include <iostream>

using namespace std;

int main() {

    int x;

    cout << "ENTER ROWS OF DIAMOND IN ODD VALUE: ";

    cin >> x;

    if (x % 2 == 0) {

        cout << "ENTER THE VALUES IN ODD INTEGER BUT BEST POSSIBLE DIAMOND  
FOR INPUT VALUE IS " << endl;

    }

    int spaces = x / 2;

    for (int i = 0; i < x / 2 + 1; ++i) {

        for (int j = 0; j < spaces; ++j) {

            cout << " ";

        }

        for (int k = 0; k < 2 * i + 1; ++k) {

            cout << "*";

        }

        cout << endl;

        --spaces;

    }

    spaces = 1;

    for (int i = x / 2 - 1; i >= 0; --i) {

        for (int j = 0; j < spaces; ++j) {
```

```

        cout << " ";
    }
    for (int k = 0; k < 2 * i + 1; ++k) {
        cout << "*";
    }
    cout << endl;
    ++spaces;
}

return 0;}

```

C:\Users\Mudassar\OneDrive\Documents\Downloads\diamandarray.exe

```

ENTER ROWS OF DIAMOND IN ODD VALUE: 5
*
***
*****
***
*
-----
Process exited after 1.268 seconds with return value 0
Press any key to continue . . .

```

Errors: 0
Warnings: 0
Output Filename: C:\Users\Mudassar\OneDrive\Documents\Downloads\diamandarray.exe
Output Size: 1.83309745788574 MiB
Compilation Time: 0.75s

Line: 0 Lines: 34 Length: 860 Insert Done parsing in 0.031 seconds