



Fundamentals of Programming

ME-15

Section B

1st Semester

Date of Submission: 16/11/2023

Haniyyah Abbas 481755

```

#include <iostream>

using namespace std;

int main(){

    int arr[10];

    cout<<"Enter the numbers:"<<endl;

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

        cin>>arr[i];

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

            cout<<arr[i]<<endl;

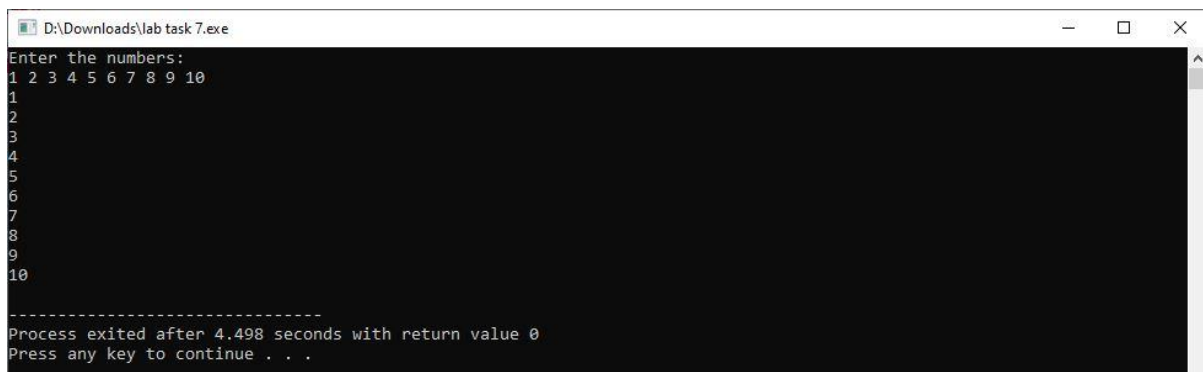
        }

    }

    return 0;

}

```



```

D:\Downloads\lab task 7.exe
Enter the numbers:
1
2
3
4
5
6
7
8
9
10
-----
Process exited after 4.498 seconds with return value 0
Press any key to continue . . .

```

```

int main(){

    int arr[10], sum=0, multi=1;

    cout<<"Enter the numbers:"<<endl;

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

        cin>>arr[i];

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

            sum+=arr[i];

            multi*=arr[i];

        }

    }

    cout<<"Sum:"<<sum<<endl;

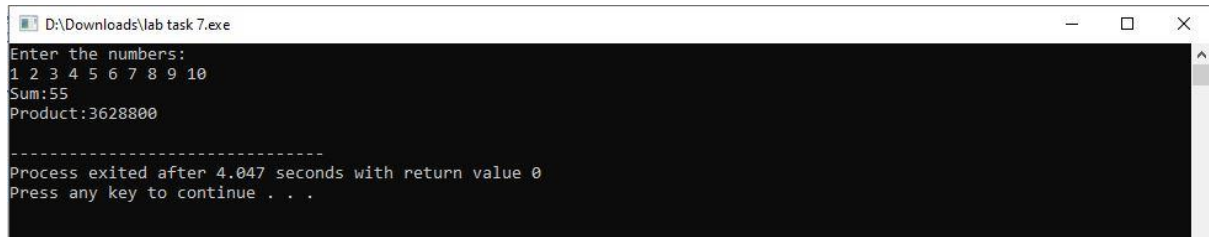
```

```

        cout<<"Product:"<<multi<<endl;

        return 0;
}

```



```

D:\Downloads\lab task 7.exe
Enter the numbers:
1 2 3 4 5 6 7 8 9 10
Sum:55
Product:3628800

-----
Process exited after 4.047 seconds with return value 0
Press any key to continue . . .

```

```

int main(){

    int rows=7;

    int half=rows/2;

    char arr[rows];

    //first half of diamond
    for(int i=0; i<=rows-1; i++){

        arr[i]=' ';

    }

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

        for(int j=0; j<=rows-1; j++){

            arr[half-i]='*';

            arr[half+i]='*';

            cout<<arr[j];

        }

        cout<<endl;

    }
}

```

```

//second half of diamond
for(int i=half+1; i<rows; i++){

    arr[i-half-1]=' ';

    arr[rows-(i-half)]= ' ';
}

```

```
        for(int k=0; k<=rows; k++){  
            cout<<arr[k];  
        }  
        cout<<endl;  
    }  
  
    return 0;  
}
```



```
D:\Downloads\lab task 7.exe  
*  
***  
*****  
*****  
*****  
***  
*  
  
-----  
Process exited after 0.0626 seconds with return value 0  
Press any key to continue . . .
```