Lab Task # 7

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TASK#1:

```cpp
#include <iostream>
using namespace std;
int main()
{
    int x[10],i;
    for(i=0;i<10;i++){
        cout<<"enter numbers:";
        cin>>x[i];
    }
    cout<<"numbers in array:"<<endl;
    for(i=0;i<10;i++){
        cout<<x[i]<<endl;
    }
    return 0;
}
```

```
enter numbers:1
enter numbers:2
enter numbers:3
enter numbers:4
enter numbers:5
enter numbers:6
enter numbers:7
enter numbers:8
enter numbers:9
enter numbers:10
numbers in array:
1
2
3
4
5
6
7
8
9
10


...Program finished with exit code 0
Press ENTER to exit console.
```

TASK#2:

#include <iostream>

using namespace std;

int main(){

   int x[5],sum,product,i,j;

   sum=0;

   product=1;

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

      cout<<"enter numbers for array:";

      cin>>x[i];
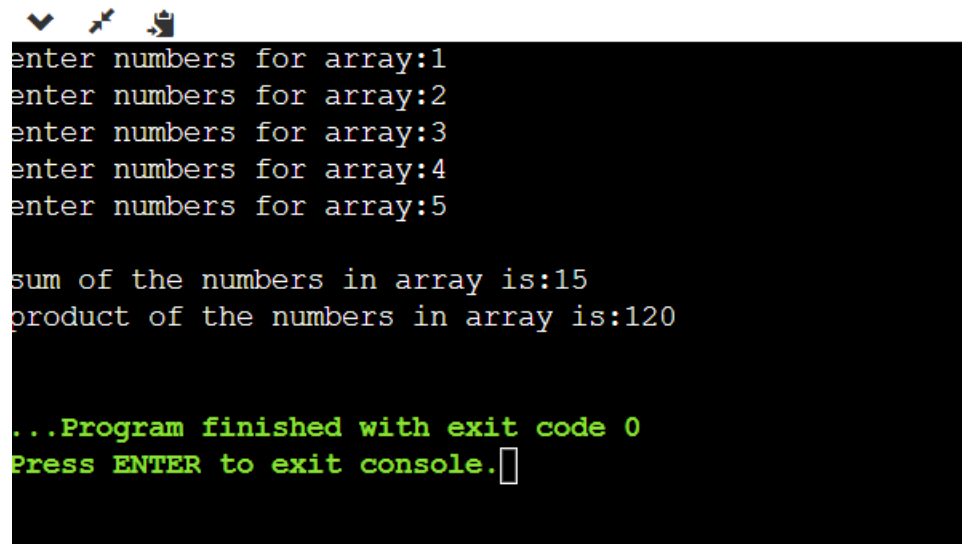
      sum=sum+x[i];

      product=product*x[i];

   }

   cout<<" "<<endl;

   cout<<"sum of the numbers in array is:"<<sum<<endl;

```
cout<<"product of the numbers in array is:"<<product<<endl;

    return 0;

}
```



```
enter numbers for array:1
enter numbers for array:2
enter numbers for array:3
enter numbers for array:4
enter numbers for array:5

sum of the numbers in array is:15
product of the numbers in array is:120


...Program finished with exit code 0
Press ENTER to exit console.
```

TASK#3:

```
#include <iostream>

using namespace std;

int main()

{

    int x=7;

    int half=x/2;

    char d[x];

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

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

            d[half+1]='*';

            d[half-1]='*';

            cout<<d[j];

        }

    cout<<endl;
```

```cpp
    }
    for(int k=half-1;k>=0;k=k-1){
        for(int l=x;l>=0;l=l-1){
            d[half+k]=' ';
            d[half-k]=' ';
            cout<<d[l];
        }
        cout<<endl;
    }
    return 0;
}
```