Fundamentals of Programming

Name: Syed Asad Raza Zaidi

Section: ME-15A

Roll no: 464239

Task1:

```
#include<iostream>
using namespace std;
int main()
{ //Take 10 integers inputs and output them.
     int n[10];
     cout<<"Enter 10 integers :";</pre>
                                               © C:\C++ projects\Lab\Labtask7 × + ∨
    for(int i=0; i<10; i++){
                                              Enter 10 integers :3
         cin>>n[i];
     for(int i=0; i<10; i++){
         cout<<n[i]<<" ";
    return 0;
                                              3 14 2 7 45 6 1 9 10 7
}
                                              Process exited after 24.16 seconds with return value 0
```

Task2:

```
{ //To find sum and product of all numbers of an array.
     int a, s=0, p=1;
     int x[5];
                                                              © C:\C++ projects\Lab\Labtask7 × + ~
     cout<<"Enter 5 integers :";</pre>
                                                             Enter 5 integers :2
     for(int a=0; a<5; a++){</pre>
     cin>>x[a];
                                                             Sum of integers :10
     for(int a=0; a<5; a++){
                                                             Product of integers :32
     s=s+x[a];
                                                             Process exited after 3.769 seconds with return value 0 Press any key to continue . . . \mid
     p=p*x[a];
     cout<<"Sum of integers :"<<s<<endl;</pre>
     cout<<"Product of integers :"<<p<<endl;</pre>
     return 0;
```

Task3:

```
//Print daimond using array.
     int x=7;
     char s[x];
     int half=x/2;
     for(int i=0; i<7; i++){
   s[i]=' ';</pre>
     for(int i=0; i<=half; i++){</pre>
                                                       © C:\C++ projects\Lab\Labtask7 × + ∨
           for(int j=0; j<x; j++){
                s[half+i]='*';
s[half-i]='*';
                cout<<s[j];</pre>
                                                      *****
           cout<<endl;
 for(int i=half; i>=0; i--){
     for(int j=0; j<x; j++){
    s[half+i]=' ';
    s[half-i]=' ';</pre>
                                                      Process exited after 0.09136 seconds with return value 0
                                                      Press any key to continue . . .
           cout<<s[j];</pre>
           cout<<endl;</pre>
     return 0;
}
```