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Fundamentals of Programming

Lab Task 7

Task 1

```
#include <iostream>
using namespace std;

int main () {
   int bar [10] = {};
   cout<<"Enter 10 values: "<<endl;
   for (int i=0;i<10;i++) {

   cout;
   cin>>bar[i];
   }
   for (int j=0;j<10;j++) {

   cout<<<bar/>bar[j]<<" ";
}

   return 0;
}</pre>
```

```
Enter 10 values:
100
90
80
70
60
50
40
30
20
100
90
80
70
60
50
```

Task 2

```
#include <iostream>
using namespace std;
int main () {
int sum[5];
int su,pro;
cout<<"Enter 5 terms: "<<endl;</pre>
for (int i=0;i<5;i++) {
cout;
cin>>sum[i];
su+=sum[i];
pro*=sum[i];
}
cout<<"Sum of the values is: "<<su<<endl;
cout<<"Product of the values is: "<<pre>ro;
return 0;
}
```

```
C:\Users\HC\Documents\Lab Task 7;.exe

Enter 5 terms:
5
4
3
7
10
Sum of the values is: 29
Product of the values is: 4200
```

Task 3

```
#include <iostream>
using namespace std;
int size;
cout<<"Enter size of diamond: "<<endl; cin>>size;
int half=size/2;
char shape[size];
                                         C:\Users\HC\Documents\Lab Task 7;.exe
for (int i=0;i<=size-1;i++) {
                                        Enter size of diamond:
       shape[i]=' ';
                                        11
for (int i=0; i<=half; i++) {
for (int j=0; j<=size;j++) {
       shape[half-i]='*';
       shape[half+i]='*';
       cout<<shape[j];</pre>
}
cout<<endl;
}
for (int i=half;i>=0;i--) {
       for (int j=0;j<size;j++) {
               shape[half-i]=' ';
               shape[half+i]=' ';
               cout<<shape[j];</pre>
       cout<<endl;
}
  return 0;
}
```