Fundamentals of Programming

Lab Task: 7

Name: Malik Haseeb

Section: B

Roll no: 468333

Submitted to: Sir M. Affan

Task:1

Code:

```
#include <iostream>
using namespace std;
int main(){
  int array[10];
  for(int i=0;i<10;i++){
     cout << "Enter the Number at: " << i << endl;
     cin>>array[i];
     continue;
  cout<<"You entered\n{";</pre>
  for(int j=0; j<10; j++){
     cout << array[j] << ", ";
  cout<<"}";
  return 0;
Output:
Enter the Number at:1
Enter the Number at: 2
      the Number at: 3
Enter the Number at:7
Enter the Number at:8
Enter the Number at:9
              8 , 3 , 11 , 68 , 23 , 9 , 45 , }
```

Task: 2

Code:

```
#include <iostream>
using namespace std;
int main(){
  int array[5];
  int sum=0,product=1;
  cout<<"Complete the Array"<<endl;</pre>
  for(int i=0; i<5; i++){
     cout << "Enter Number at :" << i << endl;
     cin>>array[i];
  cout<<"The Sum becomes:";</pre>
  for(int i=0; i<5; i++){
     sum +=array[i];
  }cout<<sum<<endl;</pre>
  cout<<"The Product becomes:";</pre>
  for(int i=0; i<5; i++){
     product *=array[i];
  }cout<<pre>conduct<<endl;</pre>
  return 0;
```

Output:

```
Complete the Array
Enter Number at :0
3
Enter Number at :1
8
Enter Number at :2
2
Enter Number at :3
7
Enter Number at :4
9
The Sum becomes:29
The Product becomes:3024
```

Task: 3

Code:

```
#include <iostream>
using namespace std;
int main(){
 int len;
 char arr[len];
 cout<<"Enter the size of Diamond"<<endl;</pre>
 cin>>len;
 int half = len / 2;
 for (int i = 0; i \le len; i++)
  arr[i] = ' ';
 for (int i = 0; i \le half; i++){
  for (int j = 0; j \le len; j++){
    arr[half - i] = '*';
        arr[half + i] = '*';
        cout << arr[j];}
    cout << endl;}</pre>
for (int i = 0; i \le len; i++){
  for (int j = 0; j \le len; j++){
    arr[i] = ' ';
        arr[len - i - 1] = '';
        cout << arr[j];}
   cout << endl;
   }
 return 0;
```

Output: