LAB MANUAL 7

LAB TASK

TASK 1

CODE:

```cpp
#include <iostream>
using namespace std;
int main()
{
  cout<<"please enter ten integers"<<endl;
  int sac [10];
        for(int i=0; i<10; i++)
  cin>> sac[i];
        for(int i=0; i<10; i++)
  cout<<sac[i]<<", ";

 return 0;
}
```

OUTPUT:

TASK 2

CODE:

```cpp
#include <iostream>

using namespace std;

int main()

{

  cout<<"please enter ten integers"<<endl;

  int n = 5;

  int sac [n];

    for(int i=0; i<n; i++)

  cin>> sac[i];

  int sum = 0;

  for(int i=0; i<n; i++)

  sum = sum + sac[i];

  cout<<"the sum ="<<sum;


  return 0;

}
```
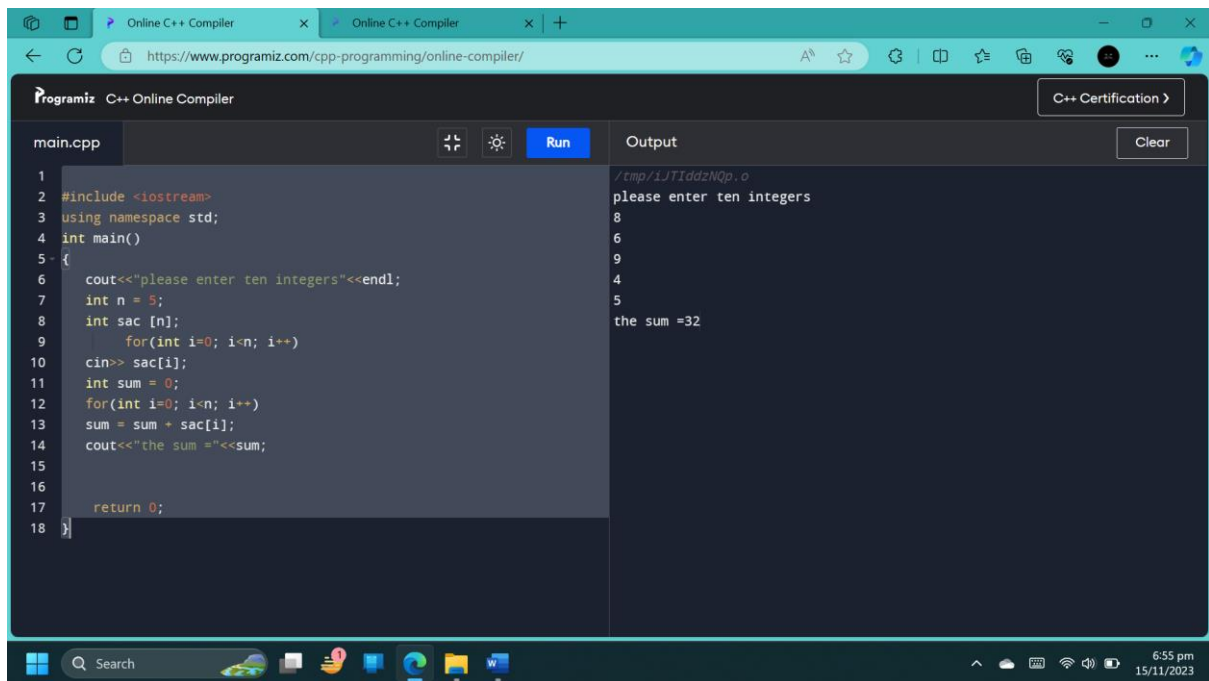
OUTPUT:

TASK 3

CODE:

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

int main(void)
{
    int n = 7;
    int h = n/2;
    char array[n];

    int count = h + 1;
    cout<<'a'<<endl;
    for (int i = 0; i <= h; i++)
    {
        for (int j = 0; j < n; j++)
        {
            array[j] = ' ';
```

```cpp
            }
            for (int j = h - i; j < count - i; j++)

            {

                array[j] = '*';

            }

            for (int k = 0; k < n; k++)

            cout<<array[k];

            cout<<endl;

            count += 2;

        }


        count = n + 1;

        for (int i = h - 1; i >= 0; i--)

        {

            for (int j = 0; j < n; j++)

            {

                array[j] = ' ';

            }

            for (int j = h - i; j < count - i; j++)

            {

                array[j] = '*';

            }

            for (int k = 0; k < n; k++)

            cout<<array[k];

            cout<<endl;

            count -= 2;

        }

}
```

OUTPUT:

main.cpp

Run

```cpp
1  #include <iostream>
2  using namespace std;
3
4  int main(void)
5  {
6      int n = 7;
7      int h = n/2;
8      char array[n];
9
10     int count = h + 1;
11     cout<<'a'<<endl;
12     for (int i = 0; i <= h; i++)
13     {
14         for (int j = 0; j < n; j++)
15         {
16             array[j] = ' ';
17         }
18         for (int j = h - i; j < count - i; j++)
19         {
20             array[i] = '*';
```

Output   Clear

```
/tmp/24fcME4JzH.o
a
   *
  ***
 *****
*******
 *****
  ***
   *
```