

LAB MANUAL 7

LAB TASK

TASK 1

CODE:

```
#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:

The screenshot shows a web browser window with the URL <https://www.programiz.com/cpp-programming/online-compiler/>. The page title is "Programiz C++ Online Compiler". There are two tabs open, both labeled "Online C++ Compiler". The main area is split into two panels. The left panel, titled "main.cpp", contains the following C++ code:

```
1
2 #include <iostream>
3 using namespace std;
4 int main()
5 {
6     cout<<"please enter ten integers"<<endl;
7     int sac [10];
8     for(int i=0; i<10; i++)
9         cin>> sac[i];
10    for(int i=0; i<10; i++)
11        cout<<sac[i]<<" ";
12
13
14
15    return 0;
16 }
```

The right panel, titled "Output", shows the execution results:

```
/tmp/IJTiddzNQp.o
please enter ten integers
1
2
3
4
5
6
7
8
9
0
1, 2, 3, 4, 5, 6, 7, 8, 9, 0, |
```

At the bottom of the browser window, the Windows taskbar is visible, showing the search bar, task view button, and several application icons. The system clock in the bottom right corner indicates 6:34 pm on 15/11/2023.

TASK 2

CODE:

```
#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++)

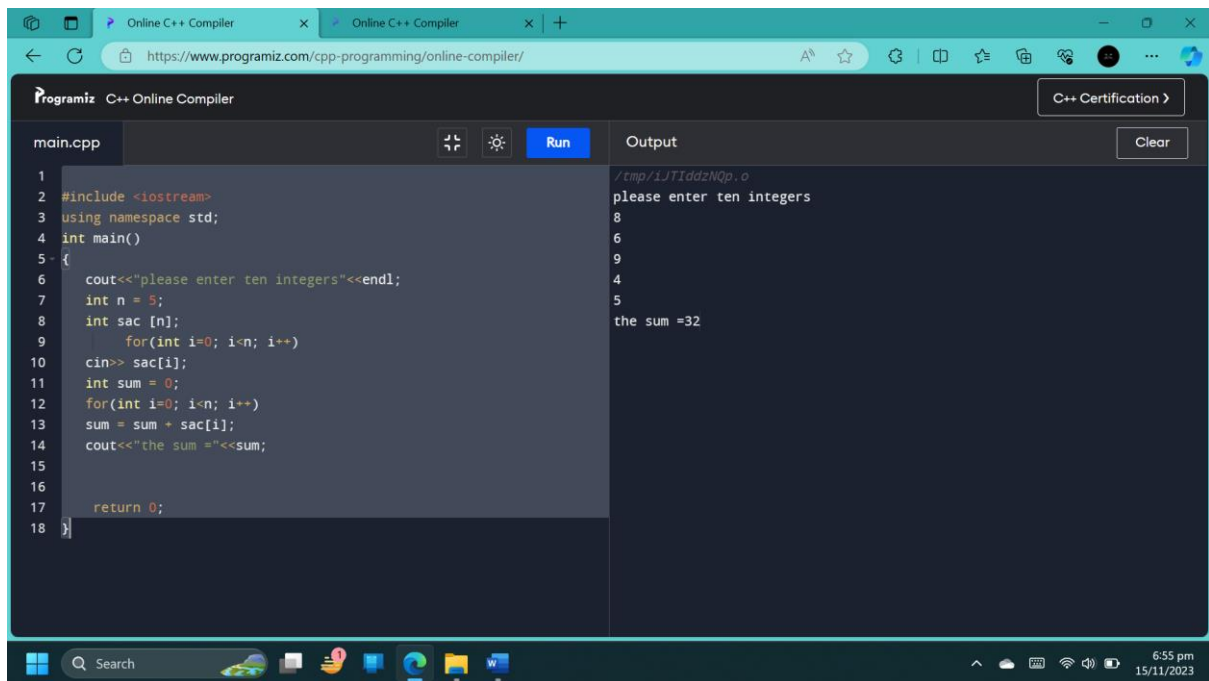
    sum = sum + sac[i];

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

    return 0;

}
```

OUTPUT:



The screenshot shows a web browser window with the URL <https://www.programiz.com/cpp-programming/online-compiler/>. The page title is "Programiz C++ Online Compiler". The code editor on the left contains the following C++ code:

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     cout<<"please enter ten integers"<<endl;
6     int n = 5;
7     int sac [n];
8     for(int i=0; i<n; i++)
9         cin>> sac[i];
10    int sum = 0;
11    for(int i=0; i<n; i++)
12        sum = sum + sac[i];
13    cout<<"the sum ="<<sum;
14
15
16
17    return 0;
18 }
```

The "Output" panel on the right shows the following text:

```
/tmp/IJTiddzNQp.o
please enter ten integers
8
6
9
4
5
the sum =32
```

The Windows taskbar at the bottom shows the time as 6:55 pm on 15/11/2023.

TASK 3

CODE:

```
#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] = 'a';
```

```

    }

    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:

