

# Basic Manual for Virtual Programming Lab for Students

## How to access VPL assignment

First you need to go to your course and if the teacher has assigned you a VPL assignment then you will be able to see it once you access the course.

10 August – 16 August



Sum of N Terms



Write a source code for printing the Sum to N terms

Example :

$1+2+3+4+5+6+\dots+N =$

Formula will be  $= (N * (N+1))/2$

IF N is 10 then according to the formula

$10*(10+1) / 2 = 10*11/2 = 55$

IF N is 20 then according to the formula

$20*(20+1) / 2 = 20*21/2 = 210$

IF N is 100 then according to the formula

$100*(100+1) / 2 = 100*101/2 = 5050$

17 August – 23 August

## NUST – LMS

### How to submit VPL assignment

Following steps must be followed to submit the VPL assignment as a student.

1. Click on the VPL assignment and you will see the following page.

## QA Course 2

[Dashboard](#) [Courses](#) [QA Course 2](#) [10 August - 16 August](#) [Sum of N Terms](#)

[Description](#) [Edit](#) [Submission view](#)

### Sum of N Terms

**Due date:** Wednesday, 2 March 2022, 5:00 AM  
**Maximum number of files:** 1  
**Maximum upload file size:** 20 KiB  
**Type of work:** Individual work

Write a source code for printing the Sum to N terms

Example :

$$1+2+3+4+5+6+\dots N =$$

Formula will be  $= (N * (N+1))/2$

[Link/portal/my/](#) can according to the formula

2. Click on the “Edit” tab.

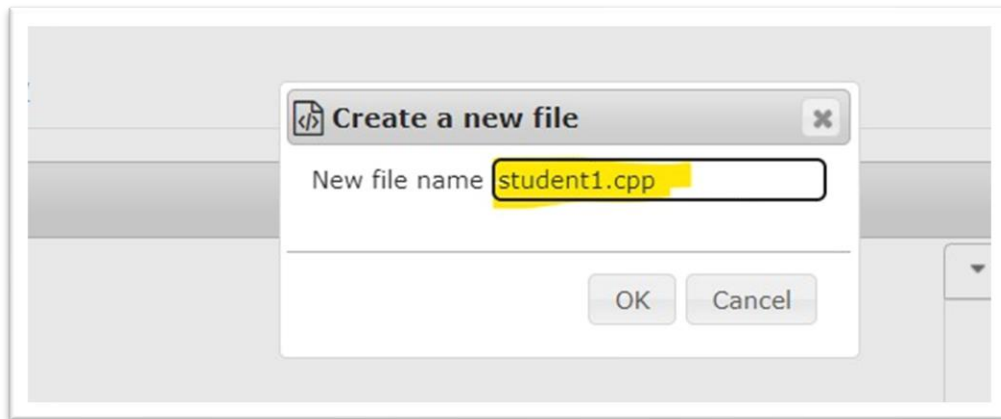
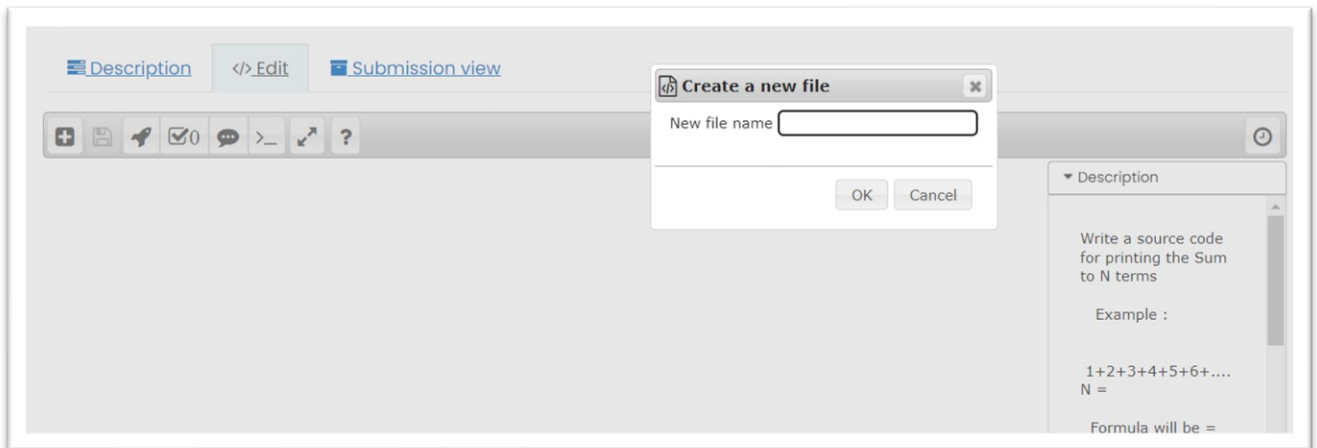
[Description](#) [Edit](#) [Submission view](#)

### Sum of N Terms

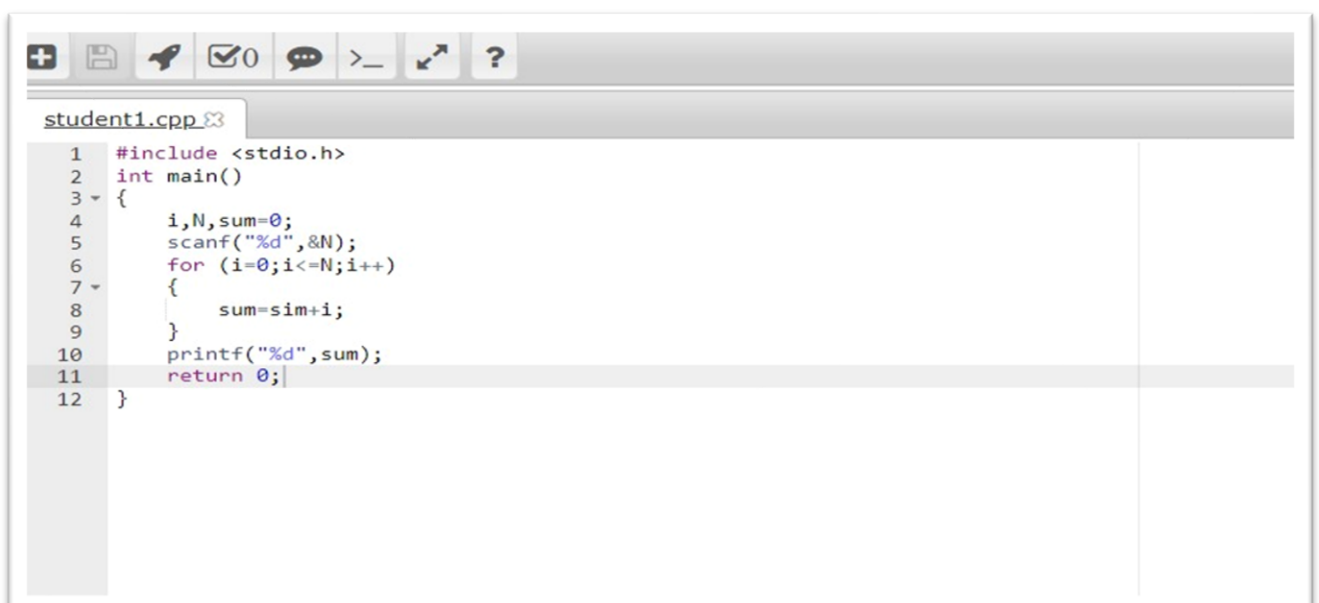
**Due date:** Wednesday, 2 March 2022, 5:00 AM  
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## NUST – LMS

3. Create a file by providing any name to this file.

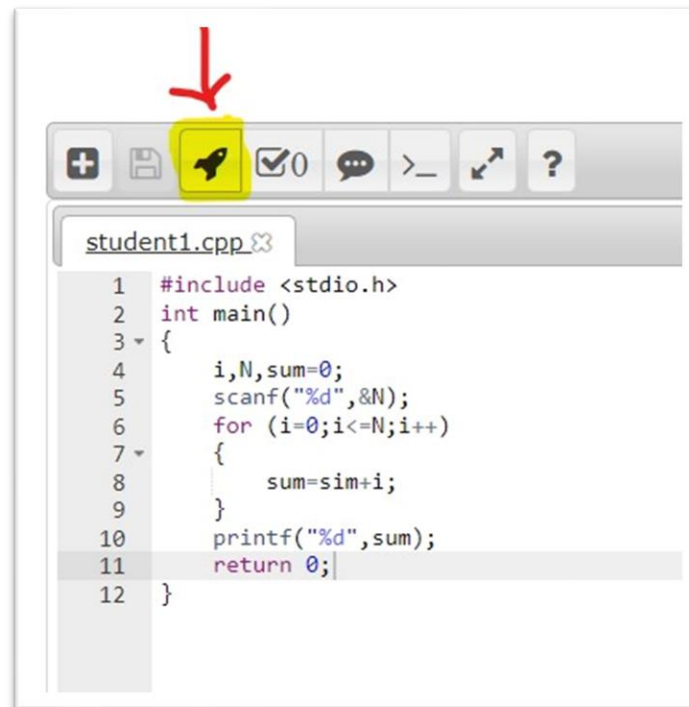


4. Write the code in the coding area and save it.



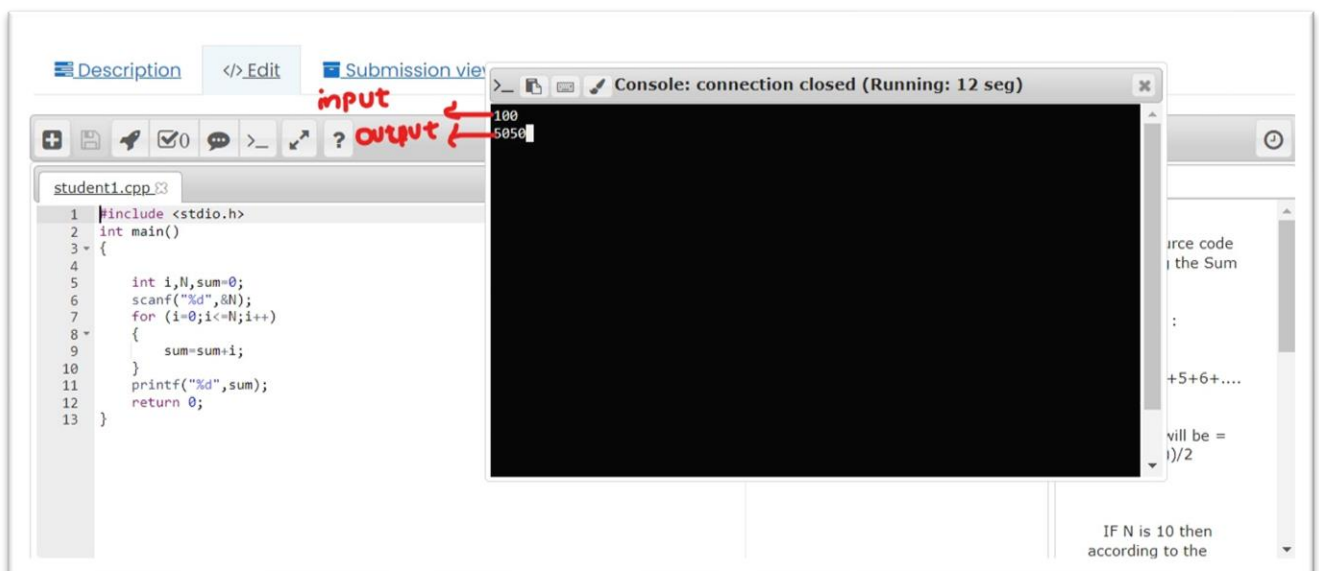
## NUST – LMS

- Now Execute your code if there are some errors in the code it will be highlighted otherwise your code will be executed successfully, and you can provide the input and output will be displayed.



The screenshot shows the LMS code editor interface. A red arrow points to the execution button (a yellow square with a black rocket icon) in the toolbar. Below the toolbar, the code for `student1.cpp` is displayed:

```
1 #include <stdio.h>
2 int main()
3 {
4     i,N,sum=0;
5     scanf("%d",&N);
6     for (i=0;i<=N;i++)
7     {
8         sum=sim+i;
9     }
10    printf("%d",sum);
11    return 0;
12 }
```



The screenshot shows the LMS submission view. The code for `student1.cpp` is displayed on the left, and the execution results are shown on the right. The console output displays the input value 100 and the calculated sum 5050. The console window title is "Console: connection closed (Running: 12 seg)".

**Input:** 100

**Output:** 5050

The code in the editor is as follows:

```
1 #include <stdio.h>
2 int main()
3 {
4     int i,N,sum=0;
5     scanf("%d",&N);
6     for (i=0;i<=N;i++)
7     {
8         sum=sum+i;
9     }
10    printf("%d",sum);
11    return 0;
12 }
```

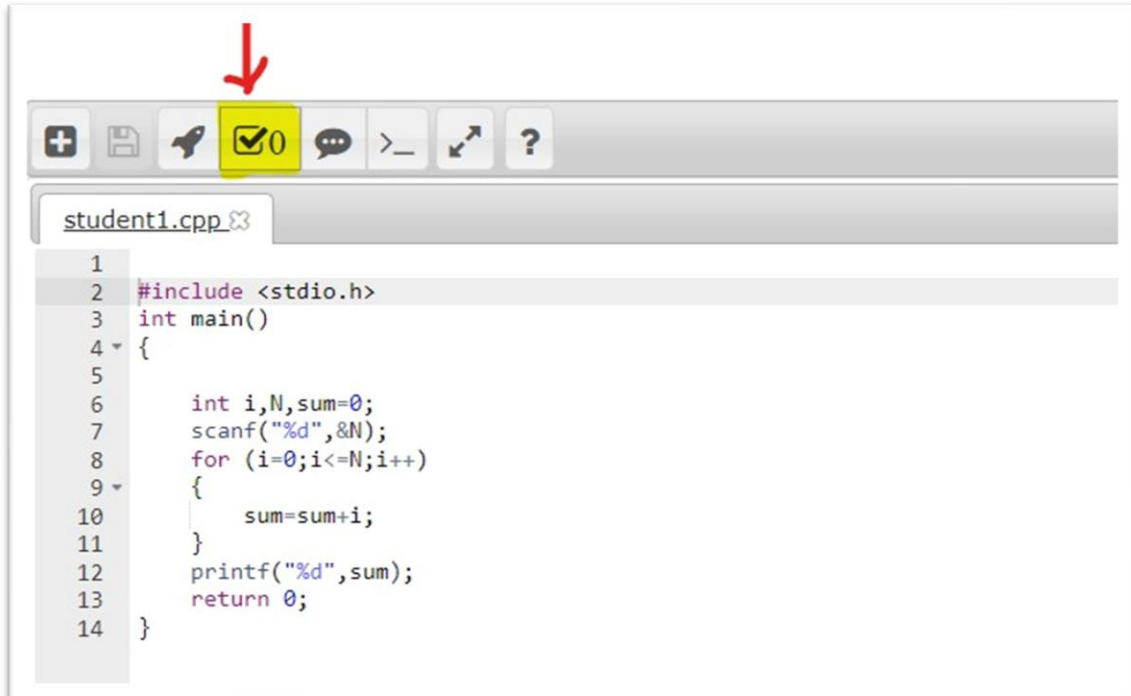
On the right side, there is a text area with the following text:

source code  
the Sum  
:  
+5+6+....  
will be =  
i)/2

At the bottom right, there is a note: "IF N is 10 then according to the"

## **NUST – LMS**

6. Now if the teacher has given you the right to evaluate your assignment you can evaluate it by clicking the evaluate my assignment option.



```
1
2 #include <stdio.h>
3 int main()
4 {
5
6     int i,N,sum=0;
7     scanf("%d",&N);
8     for (i=0;i<=N;i++)
9     {
10         sum=sum+i;
11     }
12     printf("%d",sum);
13     return 0;
14 }
```



## NUST – LMS

7. Once the evaluation is successfully completed you will see the results of the evaluation.



The screenshot displays the NUST LMS evaluation interface. On the left, a code editor shows a C++ program named `student1.cpp` with the following code:

```
1 #include <stdio.h>
2 int main()
3 {
4     int i,N,sum=0;
5     scanf("%d",&N);
6     for (i=0;i<=N;i++)
7     {
8         sum=sum+i;
9     }
10    printf("%d",sum);
11    return 0;
12 }
13 }
```

On the right, the evaluation results are shown. The **Proposed grade** is 10 / 10, indicated by a red arrow. Below this, the **Summary of tests** section shows that 3 tests were run and all 3 tests passed, also indicated by a red arrow. The **Comments** and **Description** sections are currently empty.

## Thank You