

```
#include <iostream>

using namespace std;

class Student
{
public:
    void Identity(string name,int id){
        cout<<name<<" "<<id<<endl;
    }
    void Identity(int id,string name){
        cout<<name<<" "<<id<<endl;
    }
};

int main()
{
    Student Details;

    string name;

    int id;

    cin>>name>>id;
```

```

Details.Identity(name,id);

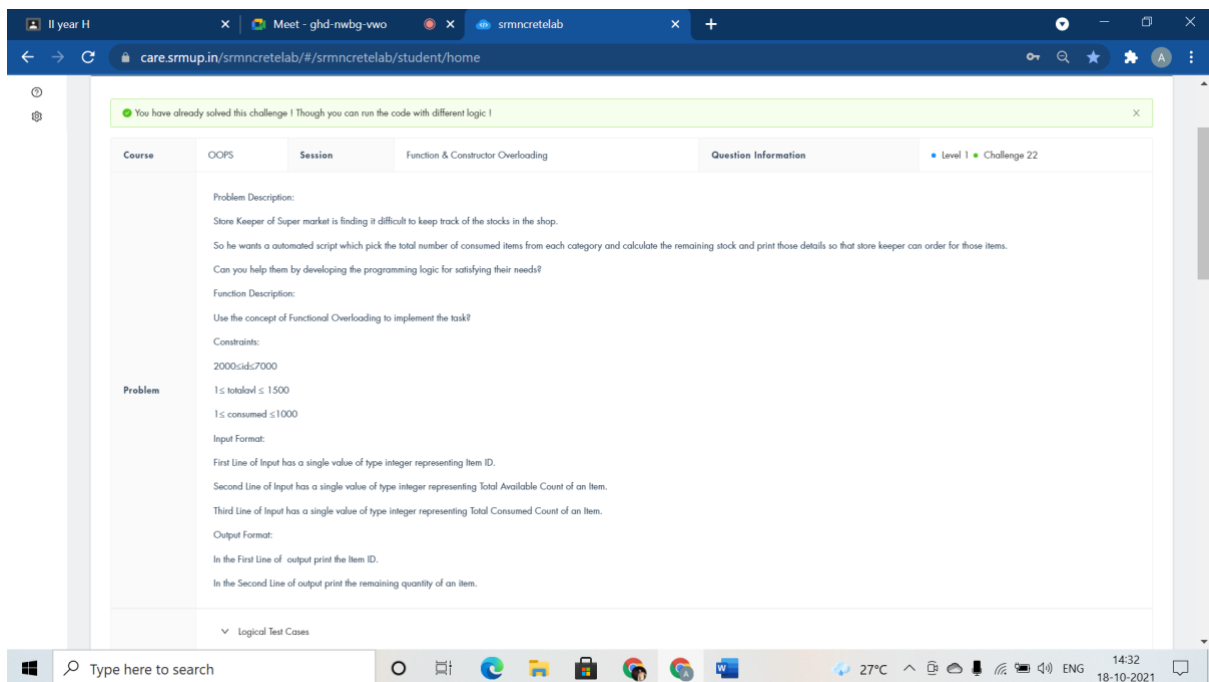
cin>>id>>name;

Details.Identity(id,name);

    return 0;

}

```



```

#include <iostream>

using namespace std;

class Store{

public:

    void itemcount(int id){

        cout<<id<<endl;

    }

    void itemcount(int totalavl,int consumed){

        cout<<totalavl - consumed<<endl;

    }

};

```

```

int main()
{
    Store purchase;

    int id,totalavl,consumed;

    cin>>id>>totalavl>>consumed;

    purchase.itemcount(id);

    purchase.itemcount(totalavl,consumed);

    return 0;
}

```

The screenshot shows a web browser window with the URL `care.srmup.in/srmncrrelab/#/srmncrrelab/student/home`. A green notification bar at the top states: "You have already solved this challenge! Though you can run the code with different logic!". The main content area is titled "Level 1 Challenge 24" and contains the following information:

- Course:** OOPS
- Session:** Function & Constructor Overloading
- Question Information:** Level 1 Challenge 24
- Problem Description:**

One of the famous politician was admitted in one of the famous hospital... Since the politician is one of the icon of the politics he has been given one of the best facilities available in the hospital. The politician was admitted in the hospital for more than a month so hospital wanted to calculate the Bill for Rooms and Medicines every week.

**Function Description:**  
Use Function Overloading to calculate the bills by taking into account the the expenses and number of days

**Constraints**  
 $5000 \leq \text{medicine} \leq 50000$   
 $15000 \leq \text{rooms} \leq 35000$   
 $1 \leq \text{days} \leq 7$

**Input Format:**  
First and Second Line of input has a single value of type integer representing amount for medicines and number of days respectively. Third and Fourth Line of input has a single value of type integer representing amount for room and number of days respectively.

**Output Format:**  
Print the Total Bill amount for Medicines and Room for a number of days in a separate line respectively.
- Logical Test Cases:**
  - Test Case 1:** INPUT (STDIN)
  - Test Case 2:** INPUT (STDIN)

The Windows taskbar at the bottom shows the system clock as 14:32 on 18-10-2021, with a temperature of 27°C.

```

#include <iostream>

using namespace std;

class Hospital{

public:

    void bill(long int mdeicinebill,int days){

        cout<<mdeicinebill*days<<endl;
    }
}

```

```

    }

    void bill(int roomrent,int days){

        cout<<roomrent*days;

    }

};

int main()

{

    Hospital ob;

    long int mdeicinebill,days;

    int roomrent;

    cin>>mdeicinebill>>days;

    ob.bill(mdeicinebill,days);

    cin>>roomrent>>days;

    ob.bill(roomrent,days);

        return 0;

}

```

You have already solved this challenge! Though you can run the code with different logic!

Course	OOPS	Session	Function & Constructor Overloading	Question Information
				Level 1 • Challenge 26

**Problem Description:**

Ram is an athlete practicing hard for the upcoming Olympics in 1000 meter Relay. He practice only for 5 days in a week and participates in local tournaments on Saturday and Sunday. He has a pattern for evaluating his own performance.

For the first two days he used to cover some distance X in 3 mins.

For the next three days of the week he used to cover some distance Y in 3 min.

If the comparative result on applying the sum of distance in first 2 days and sum of distance of next 3 days comes as expected he believes he can achieve GOLD for INDIA in Olympics.

For finding that he need the total distance he covered in first 2 days and last 3 days.

**Function Description:**

Use Function Overloading Concept to find the total Distance Covered by Ram.

**Constraints:**

1 ≤ D1 ≤ 100  
 1 ≤ D2 ≤ 100  
 1 ≤ D3 ≤ 100  
 1 ≤ D4 ≤ 100  
 1 ≤ D5 ≤ 100

**Input Format:**

First Line of input has a single value of type integer representing the distance covered by Ram on Day 1.  
 Second Line of input has a single value of type integer representing the distance covered by Ram on Day 2.  
 Third Line of input has a single value of type integer representing the distance covered by Ram on Day 3.

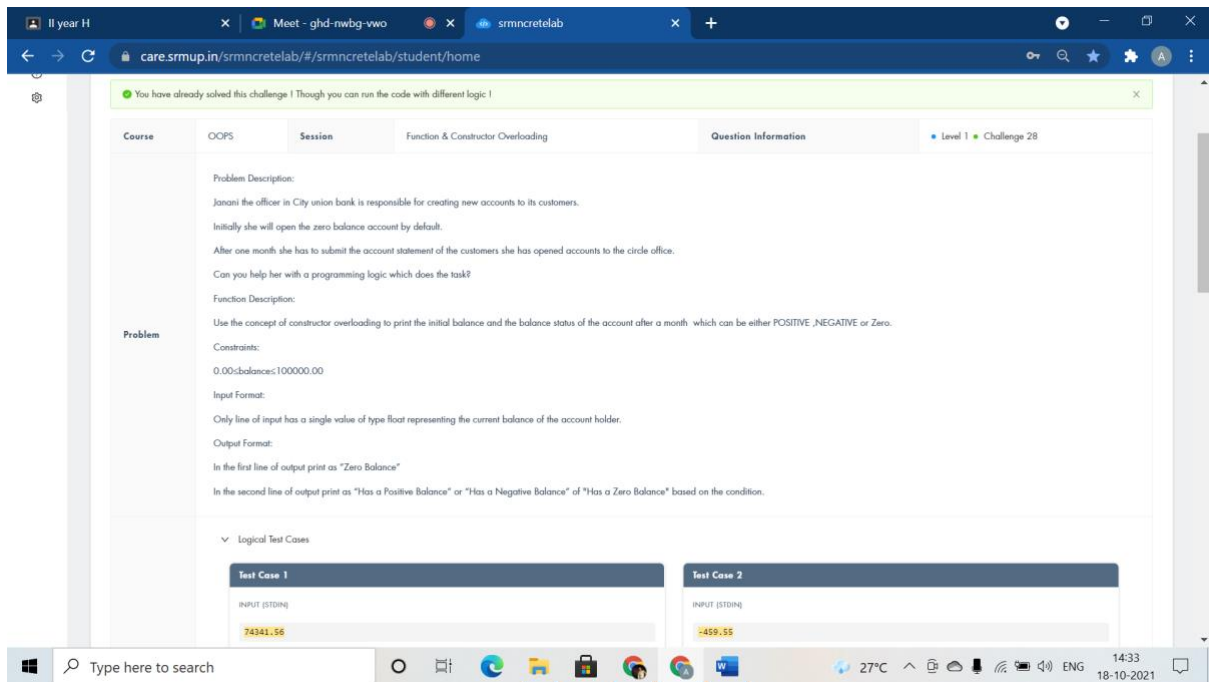
```
#include <iostream>

using namespace std;

class Olympic{
    public:
    void distance(int D1,int D2){
        cout<<D1+D2<<" meters"<<endl;
    }
    void distance(int D3, int D4, int D5){
        cout<<D3+D4+D5<<" meters"<<endl;
    }
};

int main()
{
    Olympic Medal;
    int D1,D2,D3,D4,D5;
    cin>>D1>>D2>>D3>>D4>>D5;
    Medal.distance(D1,D2);
    Medal.distance(D3,D4,D5);

    return 0;
}
```



```
#include <iostream>
```

```
using namespace std;
```

```
class AccBalance{
```

```
public:
```

```
AccBalance(){cout<<"Zero Balance"<<endl;}
```

```
AccBalance(int balance){
```

```
    if(balance<0)
```

```
        cout<<"Has a Negative Balance";
```

```
    else if(balance==0)
```

```
        cout<<"Has a Zero Balance";
```

```
    else
```

```
        cout<<"Has a Positive Balance";
```

```
    }
```

```
};
```

```
int main()
```

```
{
```

```
    AccBalance defltBal;
```

```
    int balance;
```

```

cin>>balance;

AccBalance currBal(balance);

    return 0;

}

```

The screenshot shows a web browser window with the URL `care.srmup.in/srmncretelab/#/srmncretelab/student/home`. The page displays a coding challenge titled "Level 1 Challenge 29" under the course "OOPS" and session "Function & Constructor Overloading". The problem description is as follows:

**Problem Description:**  
 Elevenil is the working in Survey of India, The National Survey and Mapping Organization of the country under the Department of Science & Technology, which is the oldest Scientific Department of the Government of INDIA. It was set up in 1767 and has evolved rich traditions over the years.  
 Now Elevenil has been assigned the task of Collecting the Area and Density Information of all the states of India from the local authorities of the respective states and to consolidate in a common portal of Government of INDIA. Since the task assigned to her is highly complicated in nature she is seeking your help.  
 Can you help her?

**Functional Description:**  
 Use the Concept of Constructor Overloading to Complete the task.

**Constraints:**  
 $1000 \leq \text{area} \leq 500000$   
 $50 \leq \text{density} \leq 2000$

**Input Format:**  
 Only Line of input has three values of type string, integer and integer separated by a space representing State name, Area and Density of State.

**Output Format:**  
 In four lines of output print the details of Country, State, Area and Density respectively in the expected format.  
 Refer sample testcases for format specification.

The page also shows a table of logical test cases:

Test Case	Input	Output
Test Case 1	INDIA 1000 500000	Country:INDIA State:INDIA Area:1000 Density:500000
Test Case 2	INDIA 1000 500000	Country:INDIA State:INDIA Area:1000 Density:500000

```

#include <iostream>

using namespace std;

class Country{
public:
    Country(){cout<<"Country:INDIA"<<endl;}
    Country(char statename[100],int area,int density)
    {
        cout<<"State:"<<statename<<endl<<"Area:"<<area<<endl<<"Density:"<<density<<endl;
    }
};

int main()
{

```

```

Country country;

char statename[100];

int area,density;

cin>>statename>>area>>density;

Country statesofindia(statename,area,density);

    return 0;

}

```

The screenshot shows a web browser window with the URL `care.srmup.in/srmncretelab/#/srmncretelab/student/home`. A green notification bar at the top states: "You have already solved this challenge! Though you can run the code with different logic!". The page content is organized into a table with columns: Course, Session, Function & Constructor Overloading, Question Information, and Level 1 Challenge 30. The 'Problem' section describes a 'Linka Book of Records' application where users register and login. It specifies the input format (First Name, Last Name) and output format (Welcome message). Below the problem description, there are two 'Logical Test Cases' shown as input-output examples.

Course	Session	Function & Constructor Overloading	Question Information	Level 1 Challenge 30
Problem	<p><b>Problem Description:</b></p> <p>Linka Book of Records has an online application facility for the public to register themselves and apply for the specific achievement which will be taken into account for the entry in to the Linka Book of Records. In their official website, once the user has registered themselves successfully it has to show the welcome message "Hi" followed by his/her "First Name". Similarly the when the user login into his account it has to show "Welcome" followed by "First name and Last name".</p> <p><b>Function Description:</b></p> <p>Use the concept of function overloading to complete the task.</p> <p><b>Input Format:</b></p> <p>First and Second Line of input has a single value of type string representing the FirstName of the User.</p> <p>Third line of input has a single value of type string representing the last name of the user.</p> <p><b>Output Format:</b></p> <p>Print the output in the expected format.</p> <p>Refer sample testcases for format specification.</p>			
<p>Logical Test Cases</p> <div> <p><b>Test Case 1</b></p> <p>INPUT (STRING)</p> <p>Rahendra\$Singh Rahendra\$Singh Shank</p> </div> <div> <p><b>Test Case 2</b></p> <p>INPUT (STRING)</p> <p>Chandra Chandra Bose</p> </div>				

```

#include <iostream>

using namespace std;

class Welcomemsg{

public:

void msg(string fname){

    cout<<"Hi "<<fname<<endl;

}

void msg(string fname,string lname){

    cout<<"Welcome "<<fname<<" "<<lname;

```



```
    }  
};  
int main()  
{  
    Welcomemsg ob;  
    string fname,lname;  
    cin>>fname;  
    ob.msg(fname);  
    cin>>fname>>lname;  
    ob.msg(fname,lname);  
    return 0;  
}
```