

**LAB 4**

Submitted by:

Name: HASEEB ULLAH

ID: F20232661009

Section: V21

Submitted to:

Name: SIR M-OWAIS KHAN

OPPS LAB 4

**Address:** C-II Block C 2 Phase 1 Johar Town, Lahore, Punjab 54770.

University of Management & Technology.

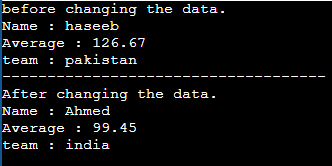
**Problem Statement 1:**

Write a class Cricket that contains attributes for the player’s name , average and team. Write three functions to input, change and display these attributes. Also write a constructor to initialize the values.

**Source code**

|  |
| --- |
| #include <iostream>  using namespace std;  class cricket{  string player\_name;  double average;  string team\_name;  public:  cricket(){  player\_name="haseeb";  average=126.67;  team\_name = "pakistan";  }  void setter(string n, double avg, string team\_n)  {  player\_name=n;  average=avg;  team\_name=team\_n;    }  void display()  {  cout << "Name : " << player\_name <<endl;  cout << "Average : " << average <<endl;  cout << "team : " << team\_name <<endl;  }  };  int main()  {  cricket Cricket;  cout << "before changing the data.\n";  Cricket.display();  cout << "------------------------------------\n";    Cricket.setter("Ahmed", 99.45, "india");    cout << "After changing the data.\n";  Cricket.display();      return 0;  } |

**Output**

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**Problem Statement 2:**

Define a class “Bank: that includes the following data members:

• Name of Depositor

• Account Number

• Balance Amount

The class also contains the following member functions:

• A parameterized constructor to initialize:

▪ Name->Ahmed

▪ Balance Amount->100

▪ Account Number->123

• Deposit Function to deposit some amount.

It should accept amount as a parameter.

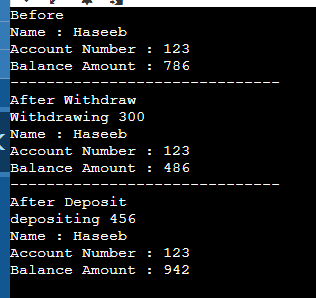
• Withdraw function to withdraw an amount. It should also accept amount as a parameter.

• Display function to display name and balance amount after deposit and withdraw

**Source code**

|  |
| --- |
| #include <iostream>  using namespace std;  class Bank{  string Name\_of\_Depositor;  int Account\_Number;  double Balance\_Amount;  public:      Bank(string n, int Act\_Num, double Balce\_Amt){  Name\_of\_Depositor = n;  Account\_Number = Act\_Num;  Balance\_Amount = Balce\_Amt;  }  void deposit(double Balce\_Amt)  {  Balance\_Amount += Balce\_Amt;  }    void withdraw(double Balce\_Amt)  {  Balance\_Amount -= Balce\_Amt;  }    void display()  {  cout << "Name : " << Name\_of\_Depositor <<endl;  cout << "Account Number : " << Account\_Number <<endl;  cout << "Balance Amount : " << Balance\_Amount <<endl;  }  };  int main()  {    Bank b("Haseeb",123,786);  cout << "Before"<<endl;  b.display();  // i can also use while but it is simple i would like to do it directly  cout << "------------------------------"<<endl;  cout << "After Withdraw"<<endl;  cout <<"Withdrawing 300\n";    b.withdraw(300);  b.display();  cout << "------------------------------"<<endl;  cout << "After Deposit"<<endl;  cout <<"depositing 456\n";    b.deposit(456);  b.display();      return 0;  } |

**Output**

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