# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7AB**

# Lab Quiz # 01

# Task

Write a program of bank management system to manage the account information using inheritance concept.

Create a class “Bank Account” with the customer\_name, account\_number etc. as member variables. Create the derived classes for two types of accounts i.e. current and saving. The derived classes will update the balance and handle the deposit and withdraw cases. Customers should be able to get updated balance after deposit and withdrawal amounts.

**Answer:**

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| Solution |
| Task Code:  #include <iostream>  using namespace std;  class BankAccount  {  public:  int accountno;  char name[20];  int balance=0;    };    // Sub class inheriting from Base Class(Parent)  class Current : public BankAccount  {  public:  int withdraw;  int deposit;    };  class Saving : public BankAccount  {  public:  int withdraw;  int deposit;    };  int main()  {  cout << "Hello Customer!" << endl;  char name[20];  cout <<"Enter name: "<< endl;  cin >> name;  int an;  cout <<"Enter account number: "<< endl;  cin >> an;  int x;  int y;  cout <<"Choose option: 1. check balance 2.deposit money 3. withdraw money "<< endl;  cin >> x;  cout <<"Choose option: 1.Saving account 2.Current Account "<< endl;  cin >> y;  Currrent obj2;  Saving obj1;      if (y==1){    if( x ==1 ) {    cout << "Your balance is: " << obj1.balance;  } else if (x==2) {  int z;  cout <<"Enter money you would like to deposit: "<< endl;  cin >> z;  obj1.deposit= z;  cout << "Your money has been deposited " << endl;    }  else if (x==3) {  int a;  cout <<"Enter money you would like to deposit: "<< endl;  cin >> a;  obj1.withdraw= a;  obj1.balance= obj1.balance - obj1.withdraw;  cout << "Your money has been withdrawn " << endl;    }    }  else if (y==2){    if( x ==1 ) {    cout << "Your balance is: " << obj2.balance;  } else if (x==2) {  int b;  cout <<"Enter money you would like to deposit: "<< endl;  cin >> b;  obj2.deposit= b;  cout << "Your money has been deposited " << endl;    }  else if (x==3) {  int c;  cout <<"Enter money you would like to deposit: "<< endl;  cin >> c;  obj2.withdraw= c;  obj2.balance= obj2.balance - obj2.withdraw;  cout << "Your money has been withdrawn " << endl;    }    }        return 0;  }  Task Output Screenshot: |

### Deliverables

Compile a single word document by filling in the solution part and submit this Word file on LMS.