# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7AB**

# Lab Quiz # 01

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# 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 Bank\_account{  public:  string cust\_name;  int acc\_num;  int amount;  int balance;  int option;  };  class Saving : public Bank\_account{  public:  int deposit1(){  balance += amount;  return balance;  }  int withdraw1(){  if (balance > amount){  if (amount <= 1000){  balance = balance - (amount);  return balance;  }    }  else{  cout << "Error! Wrong amount entered!";  return -1;  }  }  void update1(){  if (option == 1){  cout << "Your current balance is " << withdraw1();  }  else{  cout << "Your current balance is " << deposit1();  }  }  };  class Current : public Bank\_account{  public:  int deposit2(){  balance += amount;  return balance;  }  int withdraw2(){  if (balance > amount){  balance -= amount;  return balance;  }  else{  cout << "Error! Wrong amount entered!";  return -1;  }    }  void update2(){  if (option == 1){  cout << "Your current balance is " << withdraw2();  }  else{  cout << "Your current balance is " << deposit2();  }  }  };  int main(){  Bank\_account b;  Current c;  Saving s;  int opt;  cout << "Choose from following options:";  cout << endl;  cout << "1. Current";  cout << endl;  cout << "2.Savings";  cout << endl;  cin >> opt;  system("pause");  if (opt == 1){  cout << "1.Withdraw Money";  cout << endl;  cout << "2.Deposite Money";  cout << endl;  cin >> b.option;  if (opt == 1){  c.update2();  }  else  {  c.update2();  }  }  else{  cout << "1.Withdraw Money";  cout << endl;  cout << "2.Deposite Money";  cout << endl;  cin >> b.option;  if (opt == 1){  s.update1();  }  else  {  s.update1();  }  }  return 0;  }  Task Output Screenshot: |

### Deliverables

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