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**Subject: Advanced Programming**

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| Solution |
| Code:  // Amna Muqeem Lab 1  #include "stdafx.h"  #include <string>  #include <iostream>  using namespace std;  class Bank\_account {  public:  string customer\_name;  int account\_number;  int balance;  public: void deposit(int amount){  balance += amount;  cout << "Your amount has been deposited." << endl;  cout << "Current Balance: " << balance << endl;  }  };  class current : public Bank\_account{  public: void withdraw(int amount) {  if (balance - amount < 0){  cout << "Withdraw amount: " << amount << endl;  cout << "Sorry! Your balance isn't enough for this withdrawal." << endl;  cout << "Your current balance is: " << balance << ". Kindly withdraw within that range." << endl;  }  else {  balance -= amount;  cout << "You have made a withdraw of: " << amount << endl;  cout << "Your current balance is: " << balance << endl;  }  }  };  class savings : public Bank\_account {  public: void withdraw(int amount) {  if (amount > 0.2\*balance){  cout << "Withdraw amount: " << amount << endl;  cout << "You are not permitted to withdraw this much amount." << endl;  cout << "Your current balance is: " << balance << endl;  }  else {  balance -= amount;  cout << "You have made a withdraw of: " << amount << endl;  cout << "Your current balance is: " << balance << endl;  }  }  };  Current account:  int main()  {  current obj1;  obj1.balance = 1000;  obj1.account\_number = 123;  obj1.customer\_name = "Amna";  obj1.deposit(200);  obj1.withdraw(1500);  return 0;  }    Savings account:  int main()  {  savings obj1;  obj1.balance = 1200;  obj1.account\_number = 234;  obj1.customer\_name = "Aksa";  obj1.deposit(300);  obj1.withdraw(100);  return 0;  } |