1. WAP to create a class “Amazon\_Music” with following details: (Make member variables public or private as per your understanding)

* Singer name(String)
* Album name (String)
* Number of songs (Integer)
* Playtime (Integer) (in min)
* Constructor(s)
* Destructor
* Member function - “display” to print all Amazon\_Music data

Create a class “Music\_Info” derived with “Amazon\_Music”, with an added variable

* Genre (String)
* Member function - “display” to print all Music Info data.

Now test your above classes with doing following (If the base class requires that any function be virtual, modify the base-class declaration to make it so.):

* Create an object for both base and derived class
* Print the display by calling “Display” function using objects of base and derived class
* Print the display by calling “Display” function using a base pointer to objects of base and derived class
* Delete the “Music\_Info” class object using a pointer to class “Amazon\_Music”

1. WAP to create an ABC “Account\_Details” for a bank with following details: (Make member variables public, protected or private as per your understanding)
   * Client name (String)
   * Account Number (5 digit integer)
   * Current Balance (Float or Double)
   * Member Function: Create New Account
   * Member Function: Deposit money in account
   * Member Function: Withdrawing money in account
   * Member Function: Displaying account information

The bank decides to derive two customer classes derived from “Account\_Details”: “Regular” and “VIP”. The “Regular” class only provides the same function as “Account\_Details” class. The “VIP” account has all the base functions and details in ABC class with some extra functionality as if a user writes a check larger than his or her balance (cannot be too large difference), the bank will cover the extra amount, and charge a loan to user equal to extra amount along with an interest rate. So the following variables and function are added:

* Upper limit to loan (float/double) – (Default upper-limit Rs. 500 but customer may change limit while creating account)
* Simple Interest rate on loan (float/double) (Default interest rate 11.125% but customer may change limit while creating account)
* Pending loan amount (float/double)

The loan amount will be settled in the next deposit customer makes. Change the base class member functions accordingly. Test your program by creating objects/accounts in main function by asking for user input.

**Note**:

For withdrawal, you have to take user defined time period in years for the pending amount (if any) in VIP class.