C ++ Programming Assessment Test

1. Create a Project to demonstrate an ATM Banking Application which will help to get to know the bank information

Code:

```
#include <iostream>
#include <ctime>
using namespace std;
class ATM {
private:
  string currentDateTime() {
    time t now = time(0);
    tm* ltm = localtime(&now);
    string dateTime = asctime(ltm);
    //dateTime.pop back(); // Remove the newline character
    return dateTime;
  }
  int atmPin;
  int attempts;
  double startingBalance;
  double currentBalance;
public:
  ATM() {
    atmPin = 12345;
    attempts = 1;
    startingBalance = 60000.0;
    currentBalance = 20000.0;
  }
  void displayWelcomeScreen() {
```

Output:

```
class Bank {
    // Private variables used inside class
private:
    string name;
    long long accnumber;
    char type[10];
    long long amount = 0;
    long long tot = 0;

    // Public variables
public:
    // Function to set the person's data
    void setvalue()
```

```
{
      cout << "Enter name\n";</pre>
      cin.ignore();
      // To use space in string
      getline(cin, name);
      cout << "Enter Account number\n";</pre>
      cin >> accnumber;
      cout << "Enter Account type\n";</pre>
       cin >> type;
      cout << "Enter Balance\n";</pre>
      cin >> tot:
}
// Function to display the required data
void showdata()
{
      cout << "Name:" << name << endl;</pre>
      cout << "Account No:" << accnumber << endl;</pre>
      cout << "Account type:" << type << endl;</pre>
      cout << "Balance:" << tot << endl;
}
// Function to deposit the amount in ATM
void deposit()
      cout << "\nEnter amount to be Deposited\n";</pre>
      cin >> amount;
}
// Function to show the balance amount
void showbal()
{
      tot = tot + amount;
      cout << "\nTotal balance is: " << tot;</pre>
}
// Function to withdraw the amount in ATM
void withdrawl()
{
      int a, avai balance;
```

```
cout << "Enter amount to withdraw\n";
               cin >> a;
               avai balance = tot - a;
               cout << "Available Balance is" << avai balance;</pre>
       }
};
// Driver Code
int main()
{
       // Object of class
       Bank b;
       int choice;
       // Infinite while loop to choose
       // options everytime
       while (1) {
               cout << "\n~~~~~~~~
                      << "~~~WELCOME~~~~~~~~~~~~~"
                      << "~~~~\n\n";
               cout << "Enter Your Choice\n";</pre>
               cout << "\t1. Enter name, Account "
                      << "number, Account type\n";
               cout << "\t2. Balance Enquiry\n";</pre>
               cout << "\t3. Deposit Money\n";</pre>
               cout << "\t4. Show Total balance\n";</pre>
               cout << "\t5. Withdraw Money\n";</pre>
               cout << "\t6. Cancel\n";
               cin >> choice;
              // Choices to select from
               switch (choice) {
               case 1:
                      b.setvalue();
                      break;
               case 2:
                      b.showdata();
                      break;
               case 3:
                      b.deposit();
                      break;
               case 4:
                      b.showbal();
                      break;
               case 5:
                      b.withdrawl();
                      break;
```

```
case 6:
                exit(1);
                break;
          default:
                cout << "\nInvalid choice\n";</pre>
          }
     }
}
Output:
                                 .....WELCOME.....
Enter Your Choice
      1. Enter name, Account number, Account type
      2. Balance Enquiry
      3. Deposit Money
      4. Show Total balance
      5. Withdraw Money
      6. Cancel
 C:\Users\user\OneDrive\Documents\c++\77.exe
Name:rakesh
Account No:15678
Account type:saving
Balance: 2000
Enter amount to be Deposited
20000
 4
 Total balance is: 22000
Enter amount to withdraw
300
```

Available Balance is21700