<u>Lab</u> 8

1. Write a C++ program for ATM withdrawal System without using any function except main(). Please follow the following details.

A. CODE:

```
#include<iostream>
using namespace std;
class ATM
  private:
     int amt;
     string check;
  public:
     int bal;
     string pass;
     ATM()
       bal=10000;
       pass="lohith";
     }
     void withdraw()
    {
       cout<<"Enter the amount you want to withdraw: ";
       cin>>amt:
       if(amt>bal)
          cout<<"Insuffecient Balance";
```

```
else
      bal-=amt;
      cout<<"Thank You for using My ATM, Please Collect
Money"<<endl;
      cout<<"Your updated Balance is : "<<bal<<endl;</pre>
void changepasw()
    cout<<"Enter the old password: ";
    cin>>check;
    if(check==pass)
      cout<<"Enter your new password : ";</pre>
      cin>>pass;
    cout<<"You have successfully changed your password"<<endl;
else
      cout<<"The password you entered is wrong ";</pre>
   ~ATM()
   cout<<"Thank You ";
```

```
};
int main()
 ATM a;
 string check ="";
 int key=0,amt;
 while(1)
========\n";
 cout<<"Welcome to my Bank ATM\n";
 cout<<"\nYour account balance is : "<<a.bal<<endl;
=======\n":
 cout<<"\n Enter 1 to widthdraw\n Enter 2 to change the password\n
Enter 3 to exit\n";
 cin>>key;
 if(key==1)
  a.withdraw();
 else if(key==2)
  a.changepasw();
 else if(key==3)
  break;
```

```
}
a.~ATM();
}
```

SAMPLE INPUT AND SAMPLE OUTPUT:

```
Welcome to my Bank ATM
Your accounnt balance is: 10000
 Enter 1 to widthdraw
 Enter 2 to change the password
 Enter 3 to exit
Enter the amount you want to withdraw: 2000
Thank You for using My ATM, Please Collect Money
Your updated Balance is: 8000
Welcome to my Bank ATM
Your accounnt balance is: 8000
 Enter 1 to widthdraw
 Enter 2 to change the password
 Enter 3 to exit
Enter the old password : lohith
Enter your new password : htihol
You have successfully changed your password
Welcome to my Bank ATM
Your accounnt balance is: 8000
Enter 1 to widthdraw
Enter 2 to change the password
Enter 3 to exit
```

2. Write a program in C++ to store the withdrawal and password changes sequentially (default value as the first node) in the above program using Linked List.

A. CODE:

```
#include<iostream>
using namespace std;
class ATM
  private:
     int amt;
     string check;
  public:
     int bal;
     string pass;
     ATM()
       bal=10000;
       pass="lohith";
     }
     void withdraw()
     {
       cout<<"Enter the amount you want to withdraw: ";
       cin>>amt:
       if(amt>bal)
          cout<<"Insuffecient Balance";
       else
```

```
{
     bal-=amt;
     cout<<"Thank You for using My ATM, Please Collect
Money"<<endl;
     cout<<"Your updated Balance is: "<<bal<<endl;
void changepasw()
   cout<<"Enter the old password: ";
   cin>>check:
   if(check==pass)
     cout<<"Enter your new password : ";</pre>
     cin>>pass;
   cout<<"You have successfully changed your password"<<endl;
==========:":
   }
   else
     cout<<"The password you entered is wrong ";
  ~ATM()
   cout<<"Thank You ":
```

```
};
struct balance
 int bal:
 struct balance *next;
}*head1,*temp1;
struct password
 string pass;
 struct password *next;
}*head2,*temp2;
int main()
 ATM a:
 string check ="";
 int key=0,amt;
 head1=(struct balance*)malloc(sizeof(struct balance));
 temp1=head1;
 temp1->bal=a.bal;
 temp1=temp1->next;
 head2=(struct password*)malloc(sizeof(struct password));
 temp2=head2;
 temp2->pass=a.pass;
 temp2=temp2->next;
 while(1)
========\n";
 cout<<"Welcome to my Bank ATM\n";
 cout<<"\nYour account balance is : "<<a.bal<<endl;</pre>
=======\n":
```

```
cout<<"\n Enter 1 to widthdraw\n Enter 2 to change the password\n
Enter 3 to exit\n";
  cin>>key;
  if(key==1)
    a.withdraw();
    temp1=(struct balance*)malloc(sizeof(struct balance));
    temp1->bal=a.bal;
    temp1=temp1->next;
  else if(key==2)
    a.changepasw();
    temp2=(struct password*)malloc(sizeof(struct password));
    temp2->pass=a.pass;
    temp2=temp2->next;
  }
  else if(key==3)
    break;
  a.~ATM();
}
```

SAMPLE INPUT AND SAMPLE OUTPUT:

```
Welcome to my Bank ATM
Your accounnt balance is: 10000
Enter 1 to widthdraw
Enter 2 to change the password
Enter 3 to exit
Enter the amount you want to withdraw: 2000
Thank You for using My ATM, Please Collect Money
Your updated Balance is: 8000
Welcome to my Bank ATM
Your accounnt balance is: 8000
Enter 1 to widthdraw
Enter 2 to change the password
Enter 3 to exit
Enter the old password : lohith
Enter your new password : htihol
You have successfully changed your password
Welcome to my Bank ATM
Your accounnt balance is : 8000
Enter 1 to widthdraw
Enter 2 to change the password
Enter 3 to exit
```