**Pseudocode**

**A1. Login**

Begin

Flag = 0 ; option = None ;

Print (“Login”);

Read userID ; read password;

IF (userID) AND (password) in i[]:

Print (“Welcome”);

ELSE;

Print (“Invalid userID or invalid password!”);

Print (“1. Login again.”);

Print (“2. Register .”);

Print (“3.Back”);

DOWHILE (option > 0 ) AND (option < 4):

IF (flag == 0):

Option = input (“Enter your selection: ”);

IF (option == 1):

GOTO A1.Login;

ELIF (option == 2):

GOTO A2.Register;

ELIF (option == 3):

GOTO homepage;

ELSE:

Flag = flag + 1;

ENDIF

ELSE;

Option = input (“Invalid! Please try again!”);

ENDIF

ENDDO

ENDIF

End

**A2.Register**

Begin

Flag = 0; option =None;

Print ( “Register” );

Read userID, password, first name, last name;

Print (“ Account successfully created.” );

Print (“1. Register another new account.”);

Print (“2.Login”);

Print (“3.Back”);

DOWHILE (option > 0) AND (option < 4):

IF (flag == 0 ):

Option = input (“ Enter your selection: “)

IF (option == 1):

GOTO A2 Register;

ELIF (option == 2):

GOTO A1 Login;

ELIF (option == 3):

GOTO Exit;

ELSE:

Flag = flag +1;

ENDIF

ELSE :

Option = input (“Invalid ! Please try again!”)

ENDIF

ENDDO

End

**B1. Menu**

Begin

Flag = 0; option = None;

Print (“1. Add a new record.”);

Print (“2. Modify a record.”);

Print (“3.Delete a record”);

Print (“4.Search a record”);

Print (“5.View all records”);

Print (“6.Display parking slots”);

Print (“7.LogOut);

Print (“8.Quit”);

DOWHILE (option > 0) AND (option < 9):

IF (flag == 0):

Option = input (“Enter your selection: “);

IF (option == 1):

GOTO C1. Add;

ELIF (option == 2):

GOTO C2. Modify;

ELIF (option == 3):

GOTO C3. Delete;

ELIF (option == 4):

GOTO C4. Search;

ELIF (option == 5):

GOTO C5 View;

ELIF (option == 6):

GOTO C6. Parking slots;

ELIF (option == 7):

GOTO C7. LogOut;

ELIF (option == 8):

GOTO Exit;

ELSE:

Flag= flag + 1

ENDIF

ELSE :

Option = input (“Invalid ! Please try again!”)

ENDIF

ENDDO

End

**Search TP**

Begin

Current = list[]

tempname = raw\_input (“Enter TP number”);

flag = 0;

option = None;

Current = 0;

Flag1 = 0;

Print (“No, TPnum, first name, last name, phone, email, carplate, register date,parkingslotID”);

While (current < len(studentID)):

IF tempname in studentID [current];

LOOP [i] FROM 0 to 44 STEP 1;

Print [i];

Next [i]

ENDLOOP

Flag1 = flag1 + 1;

Location = studentID.append(tempname)

Current = current + 1;

Print (“1.Search another record”)

Print (“2.Back”)

DOWHILE (option >0) AND (option < 3):

IF (flag == 0):

Option = input (“Enter your selection: “);

IF (option == 1):

GOTO C4. Search;

ELIF (option == 2):

GOTO B.Menu;

ELSE:

Flag= flag + 1

ENDIF

ELSE :

Option = input (“Invalid ! Please try again!”)

ENDIF

ENDDO

End