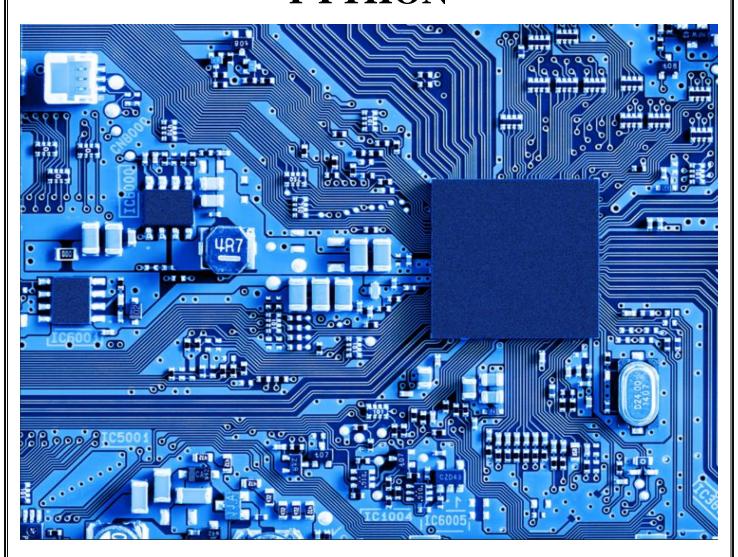
Lab TWO PYTHON



Waleed Emad Yahyaa Zakarya

TASK 1

```
# -*- coding: utf-8 -*-
Created on Mon Jul 15 13:24:19 2024
@author: waleed
corr_word = "waleedemad" ;
word_to_view = "-----";
num_of_trys = 6;
def valid_char(char): #check the validity of char
 if len(char) != 1:
   return False
 return char.islower() or char.isupper()
def extract_unique_chars(word):
 """Extracts unique characters from a word. """
 if not isinstance(word, str):
   return "" # Handle non-string input
  seen = set()
  unique_chars = ""
  for char in word:
   if char.isalpha() and char not in seen: # Check for alphabet and uniqueness
     seen.add(char)
     unique_chars += char
 return unique chars
# def remove_char_from_strings(char_to_remove, my_list):
   for i in range(len(my_list)):
word_char = extract_unique_chars(corr_word);
correct chars = "";
while ( (num_of_trys > 0) and (len(word_char) != 0) ):
   in_char = input("Enter character pleas(NO SPECIAL CHARACTERS): ");
   if ( not( valid char(in char) ) ):
       print("Invalid chatacter or not single input");
   else:
       if (in_char.isupper()):
           in_char = in_char.lower();
```

```
if (in_char in corr_word):
        temp_char = in_char;
        word_char = word_char.replace(temp_char, '');
        correct_chars = correct_chars + temp_char;
        word_to_view = "";
        for i in corr_word:
             if (i in correct_chars):
                word_to_view = word_to_view+i;
             else:
                   word_to_view = word_to_view+'-';
     else:
        num_of_trys = num_of_trys - 1;
        print("!!WRONG CHARACTER TRY AGAIN!!");
        print("!!REMAINING TRYS = %d!!"%num_of_trys);
     print(word_to_view);
if (num_of_trys == 0):
  print ("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!YOU ARE HUNGED!!!!!!!!!!!!!!!!!!!!!!!!!!!")
  Enter character pleas(NO SPECIAL CHARACTERS): +
```

TASK 2

```
Created on Mon Jul 15 19:32:09 2024
@author: waleed
               import libraries for system usage in delay and delay_____
import time
import sys
delay_time = 1 # Delay in seconds
correct_pin = 1234;
avail_balance = 50000;
num_of_trys = 4;
one = 3;
continu = "y"
in_pin = 0;
while (one != 1):
   while (num of trys>0):
        in_pin = input ("Enter your 4 digit code please : ");
       while (len(in_pin) != 4 or not(in_pin.isdigit())): #check that pin is 4 digit numeric
            print("!!!!!!!!Invalid choois!!!!!!")
            in_pin = input ("Enter your 4 digit code please : ");
        in_pin = int(in_pin);
        if (correct_pin == in_pin):
            while (continu == "y" or continu == "Y" or continu == "1"):
                print("\n1- Withdraw \n2- Balance Inquiry \n3- Fast Cash \n4- Quit\n");
                chois = input("Choos one of options from (1->4): ");
                if(chois == "1"):
                    while (1):
                        print("Enter withdraw amount (multiple of 200): ");
                        withdraw_amount = int(input());
                        if( (withdraw amount % 200) != 0):
                            print ("Invalid value\n");
                            if (withdraw_amount<=avail_balance):</pre>
                                avail_balance = avail_balance - withdraw_amount;
                                print ("PRRR",end="");
                                time.sleep(delay_time)
                                print("R", end="")
                                time.sleep(delay_time)
                                print("R", end="")
                                time.sleep(delay time)
                                print("R", end="")
                                time.sleep(delay_time)
                                print("R", end="")
                                time.sleep(delay_time)
                                print("R", end="")
                                time.sleep(delay_time)
```

```
print("00CESSED");
                break;
                print("Insufficient funds in your bank account");
elif(chois == "2"):
    print("Your balance is %d"%avail_balance);
elif(chois == "3"):
    print("1- 500$ \n2- 1000$ \n3- 5000$ \n4- 10000\n5- 50000");
    choois_invalid = 1;
   while (choois_invalid):
        Fast_cash_valu = input("Enter a choise from (1->5): ");
        if(Fast_cash_valu == "1"):
            if (500<=avail balance):</pre>
                avail_balance = 500 - withdraw_amount;
                print ("PRRR",end="");
                time.sleep(delay_time)
                print("R", end="")
                time.sleep(delay time)
                print("00CESSED");
                break;
                print("Insufficient funds in your bank account");
        elif(Fast_cash_valu == "2"):
            if (1000<=avail_balance):</pre>
                avail_balance = 1000 - withdraw_amount;
                print ("PRRR",end="");
                time.sleep(delay_time)
                print("R", end="")
                time.sleep(delay_time)
                print("R", end="")
                time.sleep(delay time)
                print("R", end="")
                time.sleep(delay_time)
                print("R", end="")
                time.sleep(delay_time)
                print("R", end="")
                time.sleep(delay_time)
                print("OOCESSED");
                break;
                print("Insufficient funds in your bank account");
        elif(Fast cash valu == "3"):
            if (5000<=avail balance):
                avail_balance = 5000 - withdraw_amount;
                print ("PRRR",end="");
                time.sleep(delay_time)
```

```
print("R", end="")
        time.sleep(delay_time)
        print("00CESSED");
        break;
        print("Insufficient funds in your bank account");
elif(Fast_cash_valu == "4"):
    if (10000<=avail balance):</pre>
        avail_balance = 10000 - withdraw_amount;
        print ("PRRR",end="");
        time.sleep(delay_time)
        print("R", end="")
        time.sleep(delay_time)
        print("00CESSED");
        break;
        print("Insufficient funds in your bank account");
elif(Fast_cash_valu == "5"):
   if (50000<=avail_balance):</pre>
        avail balance = 50000 - withdraw amount;
        print ("PRRR",end="");
        time.sleep(delay_time)
        print("R", end="")
        time.sleep(delay_time)
        print("00CESSED");
        break;
    else:
        print("Insufficient funds in your bank account");
   print("Invalid Choise");
```

```
elif(chois == "4"):
                    print ("Quit.",end="");
                    time.sleep(delay_time)
                    print(".", end="")
                    time.sleep(delay_time)
                    print(".");
                    sys.exit(0);
                    print ("!!!!INVALID CHOICE!!!!");
                continu = input("Do you want to make another operatin(y,Y,1): ");
            print("!!!!!!! WRONG PIN !!!!!!!");
            num_of_trys = num_of_trys - 1;
            print ("ONLY %d TRYS REMAIN PLEAS CONFIRM THAT CORRECT PIN IS ENTERED"%num_of_trys);
    num of trys = 3;
    print ("You enter wrong pin more than 3 times pleas wait.",end="");
    time.sleep(delay_time)
    print(".", end="")
    time.sleep(delay_time)
    print(".");
    one = one - 1;
print ("You are quit");
```

```
In [98]: runfile('E:/IC Design/Digital/ITI Summer camp 2024/scripting/Python/lab two')

Enter your 4 digit code please : ****

!!!!!!!!Invalid chooss!!!!!!!

Enter your 4 digit code please : 1597

!!!!!!!! MRONG PIN !!!!!!!

ONLY 3 TRYS REMAIN PLEAS CONFIRN THAT CORRECT PIN IS ENTERED

Enter your 4 digit code please : 1236

!!!!!!! MRONG PIN !!!!!!!

ONLY 2 TRYS REMAIN PLEAS CONFIRN THAT CORRECT PIN IS ENTERED

Enter your 4 digit code please : 1235

!!!!!!! MRONG PIN !!!!!!!

ONLY 1 TRYS REMAIN PLEAS CONFIRN THAT CORRECT PIN IS ENTERED

Enter your 4 digit code please : 1235

!!!!!!! MRONG PIN !!!!!!!

ONLY 1 TRYS REMAIN PLEAS CONFIRN THAT CORRECT PIN IS ENTERED

Enter your 4 digit code please : 1236

Enter your 4 digit code please : 1236

I!!!!!!! MRONG PIN !!!!!!!

ONLY 2 TRYS REMAIN PLEAS CONFIRN THAT CORRECT PIN IS ENTERED

Enter your 4 digit code please : 1269

I!!!!!!! MRONG PIN !!!!!!!

ONLY 2 TRYS REMAIN PLEAS CONFIRN THAT CORRECT PIN IS ENTERED

Enter your 4 digit code please : 1161

ONLY 1 TRYS REMAIN PLEAS CONFIRN THAT CORRECT PIN IS ENTERED

Enter your 4 digit code please : 1111

I!!!!!!! MRONG PIN !!!!!!!

ONLY 1 TRYS REMAIN PLEAS CONFIRN THAT CORRECT PIN IS ENTERED

Enter your 4 digit code please : 8888

III ONLY 1 TRYS REMAIN PLEAS CONFIRN THAT CORRECT PIN IS ENTERED

Enter your 4 digit code please : 8888

III | II
```

```
In 1981: runfile(":/C Design/Digital/III Summer camp 2024/scripting/Python/lab two/AIM System.py", wdir="E:/IC Design/Digital/III Summer camp 2024/scripting/Python/lab two")

In Withdraw

In Withdraw
```

```
In [188]: runfile(E/IC Omign/Digital/III Summer camp 2024/scripting/Python/lab two/employee_system_list_of_lists.py/, wdir= E/IC Design/Digital/III Summer camp 2024/scripting/Python/lab two/
] - First Process add Employee name , Salary , Department, ID)
3 - Salary Flows: John Comment of the Comment of the
```

TASK 4

```
# -*- coding: utf-8 -*
Created on Mon Jul 15 22:17:44 2024
mydict={
       "salary":10000,
       "department": "electronics",
       "id":20011963
        "emploee2":
       "name": "mohamed",
       "salary":1200,
       "department": "emara",
       "id":1880000
        "emploee3":
       "salary":9500,
       "department": "power",
       "id":1201010
print(mydict)
while 1:
    print('choose the process')
    print('1-add emploee')
    print('2-search for emploee')
    print('3-remove emploee')
    print('4-show all emploee')
    x=int(input())
        print("Enter the name")
        name=input()
        print("Enter the salary")
        salary=input()
        print("Enter the department")
        department=input()
        print("Enter the id")
        ID=input()
        print("Enter the key")
        key=input()
        mydict.update({key : {
        "name":name,
        "salary":salary,
```

```
"department":department,
                   "id":ID
                 print(mydict)
elif x==2:
                 print("Enter the name :")
                 input_key=input()
                  for i in mydict:
                                       if mydict[i]["name"]==input_key:
                                                         print(mydict[i])
                                                        break
elif x==3:
                 print("enter the name :")
                 input_key=input()
                 for i in mydict:
                                      if mydict[i]["name"]==input_key:
                                                        mydict.pop(i)
                                                        print(mydict)
                                                        break
                                print( mydict)
                                 break
               unfile('E:/IC Design/Digital/ITI Summer camp 2024/scripting/Python/lab two/untitled3.py', wdir='E:/IC Design/Digital/ITI Summer camp 2024/scripting/Python/lab two')

{ 'name': 'waleed emad', 'salary': 10000, 'department': 'electronics', 'id': 20011963}, 'emploee2': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': { 'mohamed', 'salary': 1200, 'department': 'emara', 'mohamed', 'salary': 1200, 'department': 'emara', 'mohamed', 'salary': 1200, 'de
      el': {'name': 'waleed emad', 'salary': 10000, 'department': 'electronics', 'id': 20011963}, 'emploee2': {'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1800000}, 'emploee3': {'name': o', 'salary': 9500, 'department': 'power', 'id': 1201010}, 'EMP': {'name': 'M7MD', 'salary': '12354', 'department': 'ENGINEERING', 'id': '74125'}}
  ': 'M7MD', 'salary': '12354', 'department': 'ENGINEERING', 'id': '74125'}
the process
maploce
```

plocel': {'name': 'waleed emad', 'salary': 10000, 'department': 'electronics', 'id': 20011963}, 'emploce2': {'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1800000}, 'emploce3': {'name': boccco', 'salary': 9500, 'department': 'power', 'id': 1201010}} id emploce di empl

'emploeel': {'name': 'waleed emad', 'salary': 10000, 'department': 'electronics', 'id': 20011963}, 'emploee2': {'name': 'mohamed', 'salary': 1200, 'department': 'emara', 'id': 1880000}, 'emploee3': {'name': jooosooo', 'salary': 9500, 'department': 'power', 'id': 1201010}}