Python

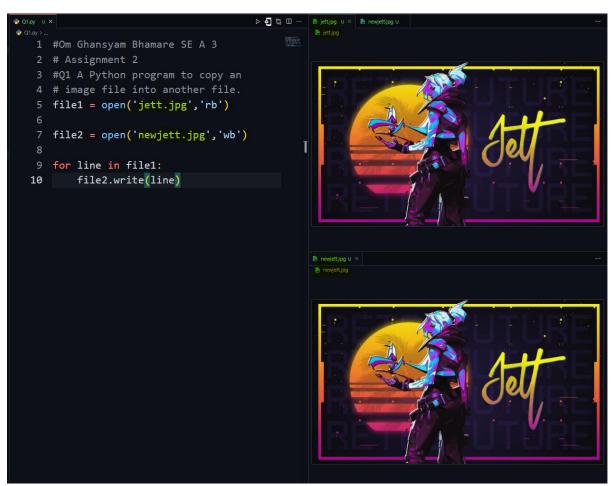
Om Ghanshyam Bhamare

SEA3

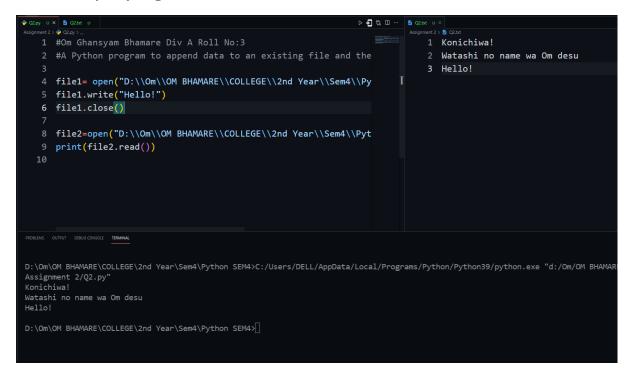
Github: https://github.com/ombhamare4/Python-SEM4.git

Assignment 2

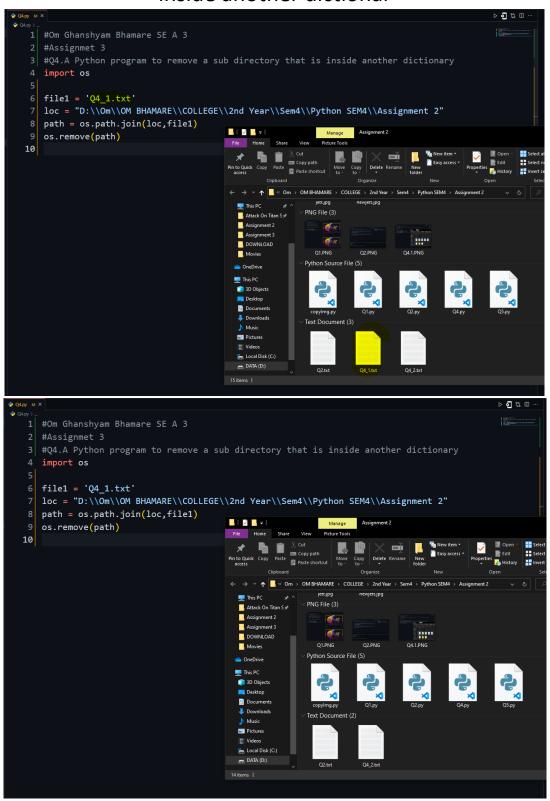
Q1]A Python program to copy an image file into another file.



Q2] A Python program to append data to an existing file and then displaying the entire file.



Q4] A Python program to remove a sub directory that is inside another dictionar



Q5] A Python program to rename a dictionary

```
#Om Ghanshyam Bhamare SE A 3

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#Assignmet 2

#Assignmet 2

#Assignmet 2

#Assignmet 2

#Assignment 2

#Assignmen
```

Q6] A Python program to create a package using data structures for a linked list and perform and use all the operations.

```
Microsoft Windows [Version 10.0.19042.985]
(c) Microsoft Corporation. All rights reserved.
   1 #Om Ghanshyam Bhamare SE A 3
                                                                                                                                                                     D:\Om\OM BHAMARE\COLLEGE\Ad Year\Sem4\Python SEM4\Assignment 2>C:\Users\DE LL\AppData\Local\Programs\Python\Python39\python.exe "d:\Om\OM BHAMARE\COLL BGE\Znd Year\Sem4\Python SEM4\Assignment 2\ll.py" Watashi no name om Desu Linked List Select Operation
1]Traverse 2]Append
3]Insert 4]Remove
5]Replace 6]Search
7]Length 8]Exit
       #A Python program to create a package using data
# structures for a linked list and perform and use all the
        #operations.
        from test_package import first
       first.info()
first.linkedlist()
                                                                                                                                                                      Enter Your Choice...: 2
Enter Element in Linked list: 1 2 3 4 5
[1, 2, 3, 4, 5]
Linked List
Select Operation
1]Traverse 2]Append
3]Insert 4]Remove
5]Replace 6]Search
7]Length 8]Exit
                                                                                                                                                                      Enter Your Choice...:
           @ Low II @ Section II . D to
                                                                                                                                                 € # E
                                                                                                                                                                    Enter Your Choice...: 2
Enter Element in Linked list: 1 2 3 4 5
[1, 2, 3, 4, 5]
Linked List
Select Operation
1]Traverse 2]Append
3]Insert 4]Remove
5]Replace 6]Search
7]Length 8]Exit
      #A Python program to create a package using data
# structures for a linked list and perform and use all the
      def info():
    print("Watashi no name om Desu")
      def linkedlist():
                                                                                                                                                                    Enter Your Choice...; 3
Enter Postion: 2
Enter Element: 12
Linked List
Select Operation
1]Traverse 2]Append
3]Insert 4]Remove
5]Replace 6]Search
7]Length 8]Exit
               choice=0
               11=[]
while(choice!=8):
                       print("Linked List\nSelect Operation\n1]Traverse\t2]Appen-
choice=int(input("Enter Your Choice...: "))
                                                                                                                                                                     Enter Your Choice...: 1
                                a = input("Enter Element in Linked list: ")
b = a.split()
                                 for i in range(len(b)):
    # ll[i]=int(ll[i])
23
24
                                        11.append(int(b[i]))
                                                                                                                                                                     5
Linked List
Select Operation
1]Traverse 2]Append
3]Insert 4]Remove
5]Replace 6]Search
7]Length 8]Exit
                         if choice==3:
                               a=int(input("Enter Postion: "))
b = int(input("Enter Element: "))
11.insert(a,b)
                                                                                                                                                                                                           : 1
                                 print("Linked List is Empty: ")
else:
                                        a = int(input("Enter Element to remove: "))
ll.remove(a)
                                                                                                                                                                     5
Linked List
Select Operation
1]Traverse 2
3]Insert 4
5]Replace 6
7]Length 8
                        if choice==5:
    n =int(input("Enter the Element to Remove: "))
                                 b=int(input("Enter New Element: "))
                                 if n in ll:
    i=ll.index(n)
                                                                                                                                                                    Enter Your Choice...: 4
Enter Element to remove: 12
Linked List
Select Operation
1]Traverse 2]Append
3]Insert 4]Remove
5]Replace 6[Search
7]Length 8]Exit
                                         11.pop(i)
                        if choice==6:
                                 a=int(input("Eneter Element to search: "))
43
44
45
                                        print("Element found...")
                                        print("Element Not Fouund...")
                        if choice==7:
                                                                                                                                                                     Enter Your Choice...: 1
                                 length=len(11)
                                print(length)
                                break
                                                                                                                                                                     Linked List
                                                                                                                                                                     Select Operation
1]Traverse 2
3]Insert 4
5]Replace 6
7]Length 8
                                                                                                                                                                                                 2]Append
4]Remove
6]Search
8]Exit
```

```
#Assignmet 2
  #A Python program to create a package using data
4 # structures for a linked list and perform and use all the
                                                                                                               Linked List
                                                                                                               1]Traverse
3]Insert
                                                                                                                                 2]Append
4]Remove
6 def info():
        print("Watashi no name om Desu")
                                                                                                               5]Replace
7]Length
                                                                                                                                 6]Search
8]Exit
   def linkedlist():
        choice=0
                                                                                                               Enter Your Choice...: 5
Enter the Element to Remove: 3
Enter New Element: 15
Linked List
         while(choice!=8):
              print("Linked List\nSelect Operation\n1]Traverse\t2]Append\n3]]
                                                                                                               Select Operation
              choice=int(input("Enter Your Choice...: "))
                                                                                                               1]Traverse
3]Insert
5]Replace
7]Length
                                                                                                                                2]Append
4]Remove
6]Search
8]Exit
              if choice==1:
              if choice==2:
                   a = input("Enter Element in Linked list: ")
                   b = a.split()
                   for i in range(len(b)):
    # ll[i]=int(ll[i])
                         11.append(int(b[i]))
                                                                                                               Select Operation
1]Traverse 2
3]Insert 4
5]Replace 6
7]Length 8
              if choice==3:
                                                                                                                                 2]Append
4]Remove
6]Search
8]Exit
                   a=int(input("Enter Postion: "))
                   b = int(input("Enter Element: "))
                   11.insert(a,b)
              if choice==4:
                   if ll==[]:
```

```
Select Operation
   def info():
          print("Watashi no name om Desu")
9 def linkedlist():
          choice=0
          11=[]
               print("Linked List\nSelect Operation\n1]Traverse\t2]Append\n3]]
                 choice=int(input("Enter Your Choice...: "))
                                                                                                                                   Linked List
Select Operation
                                                                                                                                   1]Traverse
3]Insert
5]Replace
7]Length
                                                                                                                                                         2]Append
4]Remove
6]Search
8]Exit
                      a = input("Enter Element in Linked list: ")
                       for i in range(len(b)):
    # ll[i]=int(ll[i])
                                                                                                                                  Enter Your Choice...: 6
Eneter Element to search: 2
Element found...
Linked List
Select Operation
1]Traverse 2]Append
3]Insert 4]Remove
5]Replace 6]Search
7]Length 8]Exit
                              11.append(int(b[i]))
                if choice==3:
                      a=int(input("Enter Postion: "))
b = int(input("Enter Element: "))
                       ll.insert(a,b)
                      if ll==[]:
                                                                                                                                   Enter Your Choice...:
```

```
def info():
                                                                                       Linked List
    print("Watashi no name om Desu")
                                                                                       Select Operation
                                                                                       1lTraverse
                                                                                                      21Append
                                                                                       3]Insert
                                                                                                      4]Remove
def linkedlist():
                                                                                       5]Replace
    choice=0
                                                                                       7]Length
    11=[]
while(choice!=8):
                                                                                       Enter Your Choice...: 6
        print("Linked List\nSelect Operation\n1]Traverse\t2]Append\n3]]
                                                                                       Eneter Element to search: 2
        choice=int(input("Enter Your Choice...: "))
        if choice==1:
                                                                                       Linked List
             for i in ll:
                                                                                       Select Operation
                                                                                       1lTraverse
                                                                                                      21Append
                 print(i)
                                                                                                      4]Remove
                                                                                       3]Insert
        if choice==2:
                                                                                       5]Replace
             a = input("Enter Element in Linked list: ")
                                                                                       7]Length
             b = a.split()
             for i in range(len(b)):
                                                                                       Enter Your Choice...: 6
                 # ll[i]=int(ll[i])
                                                                                       Eneter Element to search: 100
                 11.append(int(b[i]))
                                                                                       Element Not Fouund...
                                                                                       Linked List
             print(11)
                                                                                       Select Operation
        if choice==3:
                                                                                                      2]Append
                                                                                       1lTraverse
             a=int(input("Enter Postion: "))
                                                                                       3]Insert
                                                                                                      4]Remove
                                                                                       5]Replace
             b = int(input("Enter Element: "))
                                                                                       7]Length
             11.insert(a,b)
         if choice==4:
             if ll==[]:
                                                                                       Enter Your Choice...:
              🍖 first.py U 🔹 ಿ second.py U
                                                                                > € 🖫 🖽 ·
```

```
1 #Om Ghanshyam Bhamare SE A 3
                                                                                         5]Replace
7]Length
  #Assignmet 2
                                                                                                         81Exit
3 #A Python program to create a package using data
4 # structures for a linked list and perform and use all the
                                                                                          Eneter Element to search: 2
   def info():
                                                                                          Element found...
       print("Watashi no name om Desu")
                                                                                          Select Operation
                                                                                                         2]Append
9 def linkedlist():
                                                                                          3]Insert
                                                                                                         4]Remove
       choice=0
                                                                                          5]Replace
                                                                                                         6]Search
       11=[]
                                                                                          7]Length
       while(choice!=8):
            print("Linked List\nSelect Operation\n1]Traverse\t2]Append\n3]]
                                                                                         Enter Your Choice...: 6
Eneter Element to search: 100
            choice=int(input("Enter Your Choice...: "))
            if choice==1:
                                                                                          Element Not Fouund...
                for i in 11:
                                                                                          Select Operation
                    print(i)
                                                                                                        2]Append
                                                                                          1]Traverse
            if choice==2:
                                                                                                         4]Remove
                a = input("Enter Element in Linked list: ")
                                                                                          5]Replace
                b = a.split()
                                                                                          7]Length
                for i in range(len(b)):
                    11.append(int(b[i]))
                                                                                          Linked List
                print(11)
                                                                                          Select Operation
            if choice==3:
                                                                                                        2]Append
                                                                                          1lTraverse
                a=int(input("Enter Postion: "))
                                                                                                         4]Remove
                b = int(input("Enter Element: "))
                                                                                          5]Replace
                                                                                          7]Length
                                                                                                         8]Exit
                11.insert(a,b)
            if choice==4:
                if ll==[]:
                                                                                          Enter Your Choice...:
```

Q7] A Python program where two threads are acting on the same method to allot a berth for the passenger

```
[Running] python -u "d:\Om\OM BHAMARE\COLLEGE\2nd Year
                                                                                                       Not Available
                                                                                                       Allotment Vacant
     #A Python program where two threads are acting on the same method t
 fryction program where two time and
import threading
from threading import Thread, Lock
import time
lock = threading.Lock()
                                                                                                       [Done] exited with code=0 in 0.228 seconds
 9 def allotment(lock):
      while True:
if lock.acquire(blocking=False) is True:
          print("Not Available")
            time.sleep(0.1)
         lock.release()
         print("Allotment Vacant")
19 p1=Thread(target=allotment,args=(lock,))
20 p2=Thread(target=allotment,args=(lock,))
22 p1.start()
23 p2.start()
24 p1.join()
25 p2.join()
```