## Quiz 2

**Output Screenshot** 

**Test Cases** 

Test Case 1: Find 8 in {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}

Test Case 2: Find 32 in {1,5,7,9,15,30,33,37,41,42,43,65,69}

```
In [54]: runfile('/Users/sharikaloganathan/Documents/Pitts Fall 2022/Algorithm Design/
Quiz2_Sharika_Loganathan_Algorithm_Design.py', wdir='/Users/sharikaloganathan/Documents/Pitts Fall
2022/Algorithm Design')
Item 8 is found at position 7
32 not found
In [55]: |
```

```
elif (key > arr[midval2]):
                                                                                                                                                                                                                                                                               Here you can get help of any object by pressing Cmi front of it, either on the Editor or the Console.
                      return sublist3search(midval2 + 1, r, key, arr)
                      return sublist3search(midval1 + 1,
midval2 - 1, key, arr)
                                                                                                                                                                                                                                                                                                 Help Variable Explorer Plots Files
       # Key not found
                                                                                                                                                                                                                                  Console 1/A
# Driver code
                                                                                                                                                                                                                                        [49]: runfile('/Users/sharikaloganathan/Documents/Pitts Fall 202
z2_Sharika_Loganathan_Algorithm_Design.py', wdir='/Users/sharika
                                                                                                                                                                                                                                 2022/Algorithm Design')
Item 8 is found at position 7
32 not found
                                                                                                                                                                                                                                      [50]: runfile('/Users/sharikaloganathan/Documents/Pitts Fall 202
iz2_Sharika_Loganathan_Algorithm_Design.py', wdir='/Users/sharika
                                                                                                                                                                                                                                 In [50]: runfile('/Users/sharika
Quiz2_Sharika_Loganathan_Algori
2022/Algorithm Design')
Item 8 is found at position 7
32 not found
       #Test Case 1
arr=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
r = len(arr)
                                                                                                                                                                                                                                  In [51]: runfile('/Users/sharikaloganathan/Documents/Pitts Fall 202.
Quiz2_Sharika_Loganathan_Algorithm_Design.py', wdir='/Users/sharika
       key=8
pos= sublist3search(l, r, key, arr)
                                                                                                                                                                                                                                 2022/Algorithm Design')
Item 8 is found at position 7
32 not found
               print( "Item", key, "is found at position ", pos)
print()
                                                                                                                                                                                                                                 In [52]: runfile('/Users/sharikaloganathan/Documents/Pitts Fall 2022
Quizz_Sharika_Loganathan_Algorithm_Design.py', wdir='/Users/sharikal
2022/Algorithm Design')
Iten 8 is found at position 7
32 not found
 else:
                                                                                                                                                                                                                                 In [53]: runfile('/Users/sharikaloganathan/Documents/Pitts Fall 202.
Quizz_Sharika_Loganathan_Algorithm_Design.py', wdir='/Users/sharika
2022/Algorithm Design')
Item 8 is found at position 7
       #Test Case 2
arr=[1,5,7,9,15,30,33,37,41,42,43,65,69]
r = len(arr)
key=32
pos = sublist3search(l, r, key, arr)
                                                                                                                                                                                                                                 32 not found
                                                                                                                                                                                                                                 In [54]: runfile('/Users/sharikaloganathan/Documents/Pitts Fall 202.
Quizz_Sharika_Loganathan_Algorithm_Design.py', wdir='/Users/sharika
2022/Algorithm Design')
Item 8 is found at position 7
              print( key, "is found at ", pos )
                                                                                                                                                                                                                                 32 not found
```