

```

1  # Task 1 -----
2
3  D = {"book": "Port Arthur", "movie": "SW IV", "video game": "HOMM III"}
4
5  for i in D: print(i)
6  # a common alternative solution:
7  #for i in D.keys(): print(i)
8
9  for i in D: print(D[i])
10 #for i in D.values(): print(i)
11
12 D["board game"] = "Dixit"
13
14 D2 = dict(D)
15 # D2 = D.copy()
16
17 D2.pop("video game")
18
19 # Task 2 -----
20
21 # simple query:
22 #ukey = input("Enter a key: ")
23
24 # error handling approach
25 #while True:
26 #     ukey = input("Enter a key: ")
27 #     try:
28 #         uvalue = D[ukey]
29 #     except:
30 #         print("Key no found.")
31 #         continue
32
33 # if key in dictionary approach
34 #while True:
35 #     ukey = input("Enter a key: ")
36 #     if ukey in D:
37 #         uvalue = D[ukey]
38 #         break
39 #     else:
40 #         print("Key not found.")
41 #         continue
42 #
43 #print(f"Your favorite {ukey} is {uvalue}")
44
45 # Task 3 -----
46
47 Dkeys = list(D.keys())
48 D2keys = []
49 for i in D2: D2keys.append(i)
50
51 Dvalues = list(D.values())
52
53 # Task 4 -----
54
55 NewD = {}
56 for i in range(len(Dkeys)):
57     NewD[Dkeys[i]] = Dvalues[i]
58 if D == NewD:

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59     print("NewD and D are identical." )
60 else:
61     print("NewD and D are NOT identical." )
62
63 # Task 5 -----
64
65 topbooks = {1: "Port Artur", 2: "War and Peace"}
66 topmovies = {1: "SW IV", 2: "SW V"}
67 nested_dict = {"book": topbooks, "movie": topmovies}
68
69 # NOTICE the f-string quotation ' is different from the key "
70 print(f'Your favorite book is {nested_dict["book"][1]}')
71 print(f'Your favorite movie is {nested_dict["movie"][1]}')
72
73 # either of the two approaches below works:
74
75 #nested_dict["book"][3] = "Crime and Punishment"
76 #nested_dict["movie"][3] = "SW VI"
77
78 topbooks[3] = "Crime and Punishment"
79 topmovies[3] = "SW VI"
80
81 print(nested_dict)
82
83 topvgames = {1:"HOMM III", 2:"HOMM V", 3:"HOMM II"}
84 nested_dict["video game"] = topvgames
85
86 print(nested_dict)
87
88 # Task 6 -----
89
90 for i in nested_dict:
91     print(i)
92     for j in nested_dict[i]:
93         print(j, nested_dict[i][j])
94
```