## COMP-8347-91 Internet Application 2020 LAB #2

## [PART 1]

```
Dictionary in Python: Define the following dicts:
```

• len(d2)(After Update) [d2.update(d3)] : 7

```
d1={"name": "Lisa", "age": 22, (3, 'm'):['a1', 'b2', 'c3'], 5: "Seasons", 20: 556, 12:64}
d2 = dict([("name", "Chris"), ('age', 36), ((1,2), ['uu', 'vv', 'ww']), (0, 'bike'), (86, 50)])
d3 = dict(id=123, name='James', siblings=['Adam', 'Bob', 'Carly'])
d4 = dict(zip(("id", "name", "quantity"), (2020, "John Smith", 5)))
```

## Worked with dict methods:

```
d1.keys(): [(3, 'm'), 'name', 'age', 12, 20, 5]
d2.values():[['uu', 'vv', 'ww'], 'bike', 36, 'Chris', 50]
• d3.get('id') : 123
■ d2.get('age'): 36
d3.get('age'): None
• d3.get('name', 'Tim'): James
d2.items(): [((1, 2), ['uu', 'vv', 'ww']), (0, 'bike'), ('age', 36),
   ('name', 'Chris'), (86, 50)]
d3['siblings']: ['Adam', 'Bob', 'Carly']
• d2['siblings']: Traceback (most recent call last):
               File "main.py", line 14, in <module>
               print (d2['siblings'])
               KeyError: 'siblings'
d2.update(d3): None
• d2[0]: \{(1, 2): ['uu', 'vv', 'ww'], 0: 'bike', 'name': 'James', 'age':
   36, 86: 50, 'siblings': ['Adam', 'Bob', 'Carly'], 'id': 123}
• d1.get((1,2)): None
d2['siblings']*: ['Adam', 'Bob', 'Carly']
• d2['name']*: James
• d1 == d2 : False
• len(d2) (Before Update [d2.update(d3)]): 5
```

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```
for key in d1.keys():

print(key)

(3, 'm')

name

age

12

20

5

for key in d2.keys():

print(d2[key])
```

# (Before Update [d2.update(d3)]) ['uu', 'vv', 'ww'] bike 36 Chris 50

# (After Update) [d2.update(d3)]

```
['uu', 'vv', 'ww']
bike
James
36
50
['Adam', 'Bob', 'Carly']
123
```

# [PART 2]

```
f = open("catalog.txt", "r")
myitems = ['gym mats', 'rigs', 'boxing gloves', 'ropes', 'treadmill',
        'elliptical', 'dumbbell', 'yoga ball']
d1 = \{ \}
for item in myitems:
  while True:
     contain = f.readline()
     if(item in contain):
        d1[item] = (f.readline(),f.readline())
        break
     elif(contain == "):
        print(item + "is not available in the catalog.")
        break
  f.seek(0,0)
print(d1)
while True:
  s = input("Enter Fitness Item: ")
  if(s in d1):
     print(s + " has:\nCategory: " + d1[s][0]+"Value: "+ d1[s][1])
     while True:
        try:
          n = int(input("How many" + s +" do you want to order: "))
          if(n>0):
             print("Your order is successful!")
             break
```

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