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In [144]:
#Q1 Create myTuple tuple with the follwoing values ("NPower", "JDA", "Tuesday", 30, 3, 2021)
myTuple = ("NPower", "JDA", "Tuesday", 30, 3, 2021)
myTuple
Out[144]:
('NPower', 'JDA', 'Tuesday', 30, 3, 2021)
In [2]:
#Q2 What is the type of myTuple
type(myTuple)
Out[2]:
tuple
In [3]:
#Q3 What is the length of myTuple
len(myTuple)
Out[3]:
6
In [5]:
#Q4 print the values in each index #Use regular indexing
print(myTuple[0:6])
('NPower', 'JDA', 'Tuesday', 30, 3, 2021)
In [25]:
#Q5 print the values in each index #Use negative indexing
print(myTuple[-6:-1])
('NPower', 'JDA', 'Tuesday', 30, 3)
In [29]:
#Q6 what is the type of each value
print(type(myTuple[0]))
print(type(myTuple[1]))
print(type(myTuple[2]))
print(type(myTuple[3]))
print(type(myTuple[4]))
<class 'str'>
<class 'str'>
<class 'str'>
<class 'int'>
<class 'int'>
In [36]:
#Q7 unpack myTuple in the follwoeing variables name, program, dayName, month, day, year accord
# print the variables
(name, program, dayName, month, day, year) = myTuple
print(name)
print(program)
print(dayName)
print (month)
print (day)
print(year)
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NPower
JDA
Tuesday
30
3
2021
In [ ]:
#Q8 unpack myTuple2 in the follwoeing variablesname, program, dayName.
# What will happen to variables (name, program, dayName) and (month, day, year)
In [37]:
# Note the following
Tuple1=("Jerry",2,89) #This is a tuple with 3 elements
Tuple2=("Ulan") #This is a tuple with 1 element
test="Leul" #This is a VARIABLE with string value
a,b,c=Tuple1
print("Type a", type(a))
print(a,b,c)
d=Tuple2
print(type(d))
print(d)
e=test
print(e)
Type a <class 'str'>
Jerry 2 89
<class 'str'>
Ulan
Leul
In [ ]:
#Tuples are immutable
#we can always make the testTuple variable reference a new tuple in the memory
#and holding different information
testTuple=(1,2,3)
print(testTuple)
testTuple=(4,5,6)
print(testTuple)
#But we can't change or edit a value for the existing tuple
testTuple[0]=6 #ERROR 'tuple' object does not support item assignmentmy
In [145]:
#Q9 Reverse myTuple, output should looks like ("NPower", "JDA", "Tuesday", 30, 3, 2021)
myTuple = tuple(reversed(myTuple))
myTuple
Out[145]:
(2021, 3, 30, 'Tuesday', 'JDA', 'NPower')
In [122]:
#Q10 Create nestedTuple=(("Coursera", "course", 6), ("week", (2, "Lists", "Tuple")))
nestedTuple=(("Coursera", "course", 6), ("week", (2, "Lists", "Tuple")))
nestedTuple
Out[122]:
                            / I ranale !
///Coursenal Legureal
                        61
                                     /2 Itiatal Impalalili
```

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(( Coursera , Course , O), ( week , (Z, Lists , rupre )))
In [101]:
#Q11 What is the output of nestedTuple[1:2]
nestedTuple[1:2]
Out[101]:
(('week', (2, 'Lists', 'Tuple')),)
In [111]:
#Q12 print each element in the nestedTuple
print(nestedTuple[0][0])
print(nestedTuple[0][1])
print(nestedTuple[0][2])
print(nestedTuple[1][0])
print(nestedTuple[1][1][0])
print(nestedTuple[1][1][1])
print(nestedTuple[1][1][2])
Coursera
course
week
Lists
Tuple
In [113]:
#Q13 Access (2, "Lists", "Tuple") from nestedTuple
nestedTuple[1][1]
Out[113]:
(2, 'Lists', 'Tuple')
In [115]:
#Q14 Access "Lists" from nestedTuple
nestedTuple[1][1][1]
Out[115]:
'Lists'
In [116]:
#Q15 Access "Tuple" from nestedTuple
nestedTuple[1][1][2]
Out[116]:
'Tuple'
In [117]:
#Q16 Access "course" from nestedTuple
nestedTuple[0][1]
Out[117]:
'course'
In [132]:
#Q17 Concatenate myTuple with nestedTuple
myTuple=myTuple+nestedTuple
myTuple
In [140]:
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#Q18 add your name to the tuple
myTuple=myTuple+("santhiya",)
myTuple
Out[140]:
('NPower',
 'JDA',
 'Tuesday',
 30,
 3,
 2021,
 ('Coursera', 'course', 6),
 ('week', (2, 'Lists', 'Tuple')),
 'santhiya')
In [137]:
 #Q19 check whether Coursera exists within a myTuple
# NOTE in doesn't work properly with nested tuples # Wrong output
"Coursera" in myTuple
Out[137]:
False
In [139]:
#Q20 check whether an element exists within a testTuple
testTuple=("san", 1, "adhith")
print("adhith" in testTuple)
print(2 in testTuple)
print("san" in testTuple)
True
False
True
In [130]:
#Q21 Find the index of JDA in myTuple
# Find the index of 'Coursera' in myTuple
# NOTE index doesn't work properly with nested tuples # Wrong output
myTuple.index("JDA")
Out[130]:
1
In [141]:
#Q22 print index 8 from myTuple
myTuple[8]
Out[141]:
'santhiya'
In [125]:
#Q23 Get the 4th element and 4th element from last of a myTuple
print(myTuple[3])
print(myTuple[-4])
('Coursera', 'course', 6)
In [124]:
" ~ ~ A = ' 1 1
```

#Q24 Find now many times 2/ appeared in the tuple [Hint: Use method couprint(myTuple.count(27))
0
In [ ]: