AssignmentDate	14.10.2022
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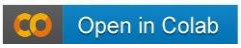
MaximumMarks	2Marks

Solution:



In[]:

Exercises
Answerthequestionsorcompletethetasks
outlinedinboldbelow,usethespecificmethoddescribedif applicable.
Whatis7 tothepowerof4?

In[]:

print(7**7**7)

Out[]:

2401
Splitthisstring:

s="HithereSam!"

intoalist.

In[]:

s="Hithereiskiruba"s

In[]:

.split()

Out[]:

['Hi','there','is','kiruba']
Given the

variables:planet

=

"Earth"diameter=

12742

In[]:

Use.format()toprintthe followingstring:

ThediameterofEarthis12742kilometers.

planet="Earth"diameter="Thediameterof{} is12742kilometers"**.**format(planet)

In[]:

print(diameter)

Thediameter ofEarthis12742kilometers
Giventhisnestedlist, useindexingtograbtheword"hello"

In[]:

lst=[1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]

In[]:

```
lst[3][1][2]
```

Out[]:

```
['hello']
```

Giventhisnestdictionarygrabtheword"hello".Beprepared,thiswillbeannoying/tricky

In[]:

```
d =
```

In[]:

```
{'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}d["
```

Out[]:

```
k1"][3]["tricky"][3]["target"][3]
```

```
'hello'
```

In[]:

Whatisthe maindifferencebetweenatuple andalist?

#Theprimarydifference betweentuplesandlistsisthattuples areimmutableasopposedto listswhich aremutable.

Createafunctionthatgrabsthe emailwebsitedomainfromastringinthe form:

user@domain.com

In[]:

Soforexample,passing"user@domain.com"wouldreturn:domain.com

```
def domainGet(email):
    print("Yourdomainis:"+email.split('@')[-1])
email=input("Pleaseenteryouremail:>")domainGet(email)Ple
aseenter youremail:kirubakiruba9185@gmail.com
Yourdomainis:gmail.com
```

In[]:

Out[]:

```
'domain.com'
```

Create a basic function that returns True if the word 'dog' is contained in the input string.Don't worry about edge cases like a punctuation being attached to the word dog, but doaccountforcapitalization.

In[]:

```
def findDog(st):
    if'dog'inst.lower():p
        rint("True")
    else:
        print("False")
```

In[]:

```
st="I take
awalkwithmydog"findDog(st)True
```

Createafunctionthatcountsthenumberoftimestheword"dog"occursinastring.Again ignoreedgecases.

In[]:

```
value="My moms's dogswon'teatdrydogfood";
```

In[]:

```
def countdogs(value):
    count= 0
    forwordinvalue.lower().split():
        ifword=='dog'or word=='dogs':
```

```
        count = count +
        1print(count)countdogs(valu
        e)
```

1

2

Problem

You are driving a little too fast, and a police officer stops you. Write a function to return oneof 3 possible results: "No ticket", "Small ticket", or "Big Ticket". If your speed is 60 or less,the result is "No Ticket". If speed is between 61 and 80 inclusive, the result is "SmallTicket".Ifspeedis81 ormore,theresultis"BigTicket".Unlessitisyourbirthday(encoded as a boolean value in the parameters of the function) -- on your birthday, yourspeed canbe5higherinallcases.

In[]:

```
def caught_speeding(speed,is_birthday):

    if is_birthday:speeding
        =speed-5
    else:
        speeding=speed

    if speeding >80:
        return 'Big Ticket'
    elif speeding>60:
        return 'SmallTicket'
    else:
        return 'No
```

In[]:

```
Ticket'caught_speeding(91,False)
```

Out[]:

```
'BigTicket'
```

In[]:

```
speed="Yourspeedismorethan81"caught_speeding(81,True)
```

Out[]:

```
'SmallTicket'
```

Create an employee list with basic salary values(at least 5 values for 5 employees) and using a forloopretreive eachemployee salary andcalculatetotalsalaryexpenditure.

In[]:

```
employee_names = ["Kiruba", "Chandra", "Mahesh", "Naveen",
"Jeeva","Hari ni"]employee_salaries={}foremployee
inemployee_names:
    whileTrue:#Input validationloop
        try:
            employee_salaries[employee]=int(input(f"Enter{employee}'ssalary:"))
            break
        except
            ValueError:print("In
            validinput")
    print(employee_salaries)
    total =
    sum(employee_salaries.values())print(t
    otal)
```

```
Enter Kiruba's salary:
56,000Invalidinput
Enter Kiruba's salary:50000
```

{'Kiruba':50000}

50000

EnterChandra'ssalary:40000

{'Kiruba':50000,'Chandra':40000}

90000

EnterMahesh'ssalary:30000

{'Kiruba':50000,'Chandra':40000,'Mahesh': 30000}

120000

EnterNaveen'ssalary:4500

{'Kiruba':50000,'Chandra':40000,'Mahesh': 30000,'Naveen':4500}

124500

EnterJeeva'ssalary: 56000

{'Kiruba':50000,'Chandra':40000,'Mahesh':30000,'Naveen':4500,'Jeeva':56000}

180500

EnterHarini'ssalary: 87000

{'Kiruba':50000,'Chandra':40000,'Mahesh': 30000,'Naveen':4500,'Jeeva':56000,'Harini': 87000}

267500

CreatetwodictionariesinPython:

First one to contain fields as Empid, Empname, BasicpaySecond dictionary to contain fields as DeptName, DeptId.Combinebothdictionaries.

In[]:

```
e1={"Empid":1,
   "Empname":'Kiruba',"Basicpay":8000}e2=
   {"DeptName":'CSE',"DeptId":69}
```

In[]:

```
print({**e1,**e2})
```

{'Empid':1,'Empname':'Naveen','Basicpay': 8000,'DeptName':'CSE','DeptId':69}