ASSIGNMENT-3

Assignment Date	08 October 2022
Student Name	DINESH N
Student Roll Number	7376191CS159
Maximum Marks	2 Marks

Exercises

Answer the questions or complete the tasks outlined in bold below, use the specific method described if applicable.

What is 7 to the power of 4?

```
7**4
```

Split this string:

```
s = "Hi there Sam!"
```

into a list.

```
s = 'Hi there Sam!'
s = s.split()print(s)
```

Give

```
planet = "Earth"
diameter = 12742
```

Use .format() to print the following string:

```
The diameter of Earth is 12742 kilometers.
```

```
planet = "Earth"diameter = 12742
```

G

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

Give

```
lst[3][1][2][0]
```

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

Wha

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```
# Tuple is immutable
```

```
user@domain.com
```

So for example, passing "user@domain.com" would return: domain.com

```
defdomainGet(email):
returnemail.split('@')[-1]
```

```
domainGet('user@domain.com')
```

Out[16]: '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 do account for capitalization.

In [17]:
```
def findDog(st):
return 'dog' in st.lower().split()
```

Out[18]:

Cre

In [23]:
```
findDog('Is there a dog here?')
```

Out[24]:
```
def countDog(st):count
= 0 for word in
st.lower().split(): if
word == 'dog':count +=
1 return count
```

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In [2]:
```
countDog('This dog runs faster than the other dog dude!')
```

tick

"Sm

parameters of the function) -- on your birthday, your speed can be 5 higher in all cases.

In [28]:
```
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 'Small
Ticket' else:
return 'No Ticket'
```

In [29]:
```
caught_speeding(81,False)
```

Out[29]:
```
'Big
Ticket'
```

In [30]:
```
caught_speeding(81,True)
```

Out[30]: 'Small Ticket'

Create an employee list with basic salary values(at least 5 values for 5 employees) and using a for loop retreive each employee salary and calculate total salary expenditure.

In [28]:
```
defweeklyPaid(hours_worked,wage):
if hours_worked > 40:
return 40 * wage + (hours_worked - 40) * wage * 1.5
else:
return hours_worked * wage


hours_worked = 50
wage = 100
pay = weeklyPaid(hours_worked, wage) print(f"Total gross pay: Rs.{pay:.2f} ")
```

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F

Second dictionary to contain fields as DeptName, DeptId.

Combine both dictionaries.

In [17]:
```
{
dict1 = {'Empid':'123','Empname':'sam','Basicpay':'20,000'}dict2 = {'Deptname':'cs','Deptid':'456'}
```

In [18]:
```
dict1.update(dict2)print(dict1)
```