Date	15th October 2022
Team ID	PNT2022TNID14568
Project Name	Visualizing And Predicting Heart Diseases with An Interactive Dash Board
Maximum Marks	4 Marks

```
-*- coding: utf-8 -*-
"""Assignment_3.ipynb

Automatically generated by Colaboratory.

Original file is located at
    https://colab.research.google.com/drive/1kTjnat7_w9hREjMou5krZ4FHYJijC4va
"""

a = 7
b = 4
c = a**b
print (c)

s = "Hi there Sam!"
t = s.split()
print (t)

s = "Hi there dad"
t = s.split()
print (t)

planet = "Earth"
```

```
diameter = 12742
print (f"The diameter of {planet} is {diameter} kilometers")

print('The diameter of {planet} is {diameter} kilometers.'.format(planet='Earth', diameter='12742'))

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

l = lst[3][1][2]
print(l)

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

print(d['k1'][3]["tricky"][3]['target'][3])

s = "user@domain.com"
def grabDomain(s):
    myString = ""
    found = False
    for i in string:
        if(found):
            myString = myString + i

        if(i == "@"):

            found = True

    return myString

print(grabDomain(s))
```

"""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."""

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

st = "Is there a dog here?"
findDog(st)
```

True

```
findDog('Is there a dog here?')

def countFound(string , searchString):
  count = 0
  for i in range(len(string)):
      if(string[i:i+len(searchString)] == searchString):
          count = count + 1
  return count

print(countFound("Barking dog is a dog" , "dog"))
```

"""Problem

You are driving a little too fast, and a police officer stops you. Write a function to return one of 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 "Small Ticket". If speed is 81 or more, the result is "Big Ticket". Unless it is your birthday (encoded as a boolean value in the parameters of the function) -- on your birthday, your speed can be 5 higher in all cases.

"""

```
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'

def caught_speeding(speed, is_birthday):
    pass

caught_speeding(81,True)

caught_speeding(81,False)

"""Create two dictionaries in Python:

First one to contain fields as Empid, Empname, Basicpay

Second dictionary to contain fields as DeptName, DeptId.

Combine both dictionaries.
"""

def Merge(dict1, dict2):
```

```
    return(dict2.update(dict1))



dict1 = {'Empid': 'E1', 'Empname': 'Harshini',  'Basicpay': 500000}
dict2 = {'DeptName': 'IT', 'DeptId': 'IT55'}

print(Merge(dict1, dict2))

print(dict2)
```