Assignment -1

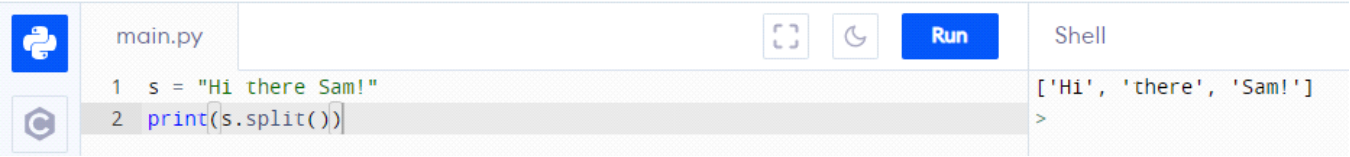
Python Programming

Assignment Date	19 September 2022
Student Name	Ms.Madhumitha.M
Student Roll Number	113219071016
Maximum Marks	2 Marks

Question-1:

Split this string.

Solution:	
	s = "Hi there Sam!"
	print(s.split())
	#------------------------------------#
	#------------------------------------#

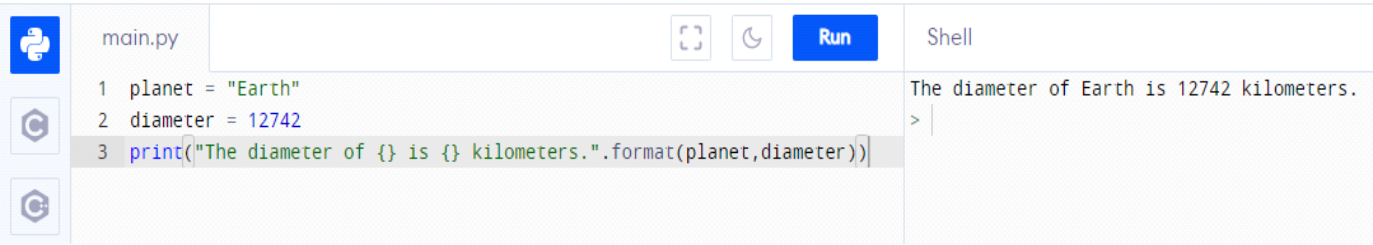


Question-2:

Use .format() to print the following string.

Output should be: The diameter of Earth is 12742 kilometers.

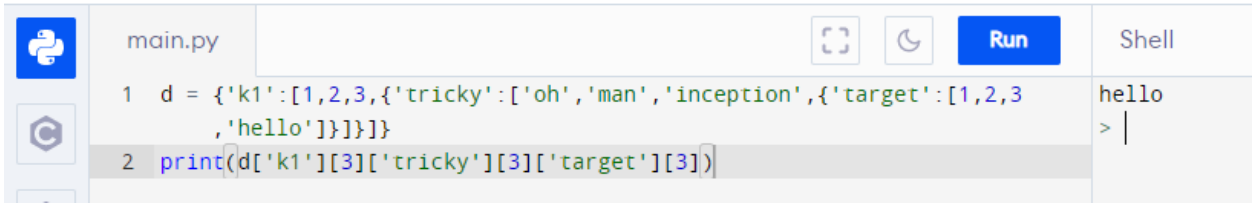
Solution:	
	planet = "Earth"
	diameter = 12742
	print("The diameter of {} is {} kilometers.".format(planet,diameter))
	#------------------------------------#
	#------------------------------------#



Question-3:

In this nest dictionary grab the word "hello"

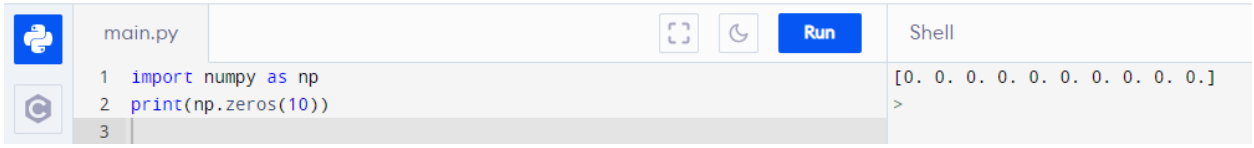
Solution:	
	d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}
	d['k1'][3]['tricky'][3]['target'][3]
	#----------#
	#----------#



Question-4.1:

Create an array of 10 zeros?

Solution:	
	import numpy as np
	x=np.zeros(10)
	print(x)
	#----------#
	#----------#



Question-4.2:

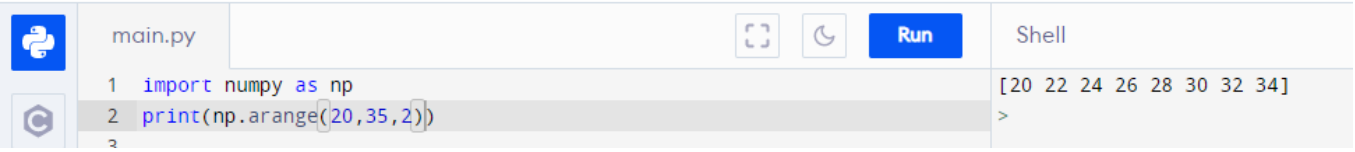
Create an array of 10 fives?

Solution:	
	import numpy **as** np
	x=np.ones(10)*5
	print(x)
	#----------#
	#----------#

Question-5:

Create an array of all the even integers from 20 to 35

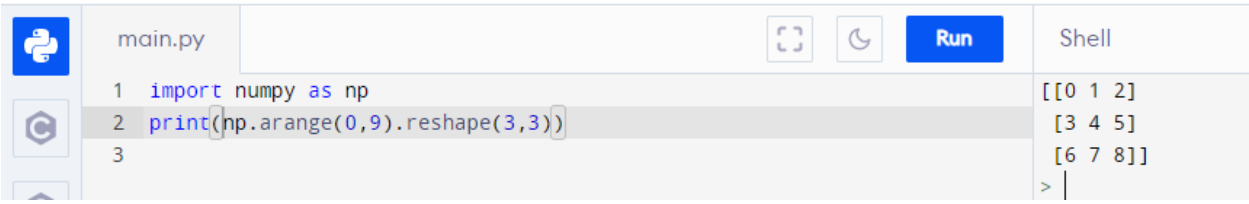
Solution:	
	import numpy **as** np
	x=np.arange(20,36,2)
	print(x)
	#----------#
	#----------#



Question-6:

Create a 3x3 matrix with values ranging from 0 to 8

Solution:	
	import numpy **as** np
	x=np.arange(0,9).reshape(3,3)
	print(x)
	#-------------------------------------#
	#-------------------------------------#

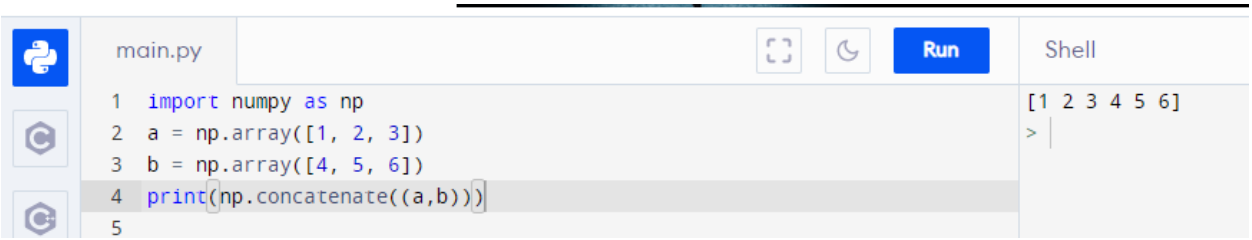


Question-7:

Concatinate a and b

a = np.array([1, 2, 3]), b = np.array([4, 5, 6])

Solution:	
	a=np.array([1,2,3])
	b=np.array([4,5,6])
	c=np.concatenate((a,b))
	print(c)
	#-------------------------------------#
	#-------------------------------------#



Question-8:

Pandas

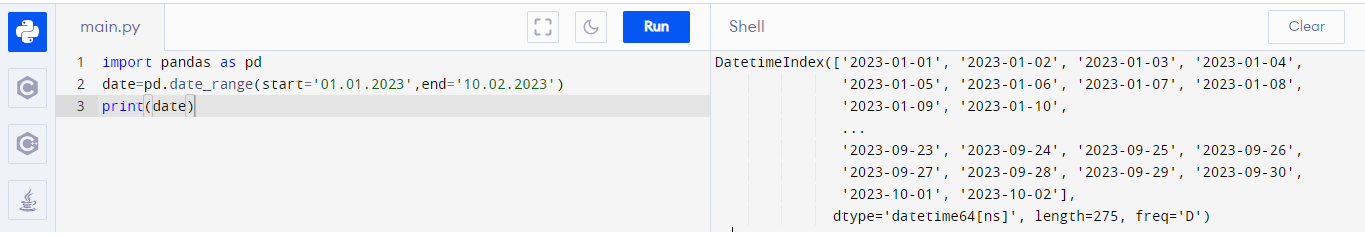
Create a dataframe with 3 rows and 2 columns

Solution:	
	import pandas **as** pd
	d={'a':[1,2,3], 'b':[4,5,6]}
	y=pd.DataFrame(d)
	print(y)
	#----------# #----------#

Question-9:

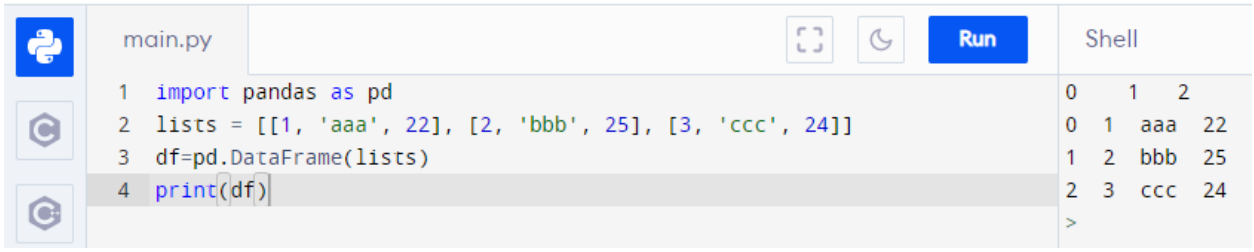
Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023

Solution:	
	import pandas **as** pd
	x=pd.date_range(start='1-1-2023', end='2-10-2023')
	for val **in** x:
	print(val)
	#----------# #----------#



Question-10:

Create 2D list to DataFrame

lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]

Solution:	
	lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
	x=pd.DataFrame(lists)
	print(x)
	#----------#
	#----------#