**ASSIGNMENT 17**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***Question 1. Assign the value 7 to the variable guess\_me. Then, write the conditional tests (if, else, and elif) to print the string 'too low' if guess\_me is less than 7, 'too high' if greater than 7, and 'just right' if equal to 7.**

**Answer 1 :**

guess\_me = 7

if guess\_me < 7 :

print('too low')

elif guess\_me > 7 :

print('too high')

else :

print('just right')

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Question 2. Assign the value 7 to the variable guess\_me and the value 1 to the variable start. Write a while loop that compares start with guess\_me. Print too low if start is less than guess me. If start equals guess\_me, print 'found it!' and exit the loop. If start is greater than guess\_me, print 'oops' and exit the loop. Increment start at the end of the loop.

Answer

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**Question 3. Print the following values of the list [3, 2, 1, 0] using a for loop.**

**Answer 3:**

list = [3, 2, 1, 0]

for i in list :

print(i)

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**Question 4. Use a list comprehension to make a list of the even numbers in range(10)**

**Answer 4:**

list = []

for i in range(10):

if i%2 ==0:

list.append(i)

print(list)

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**Question 5. Use a dictionary comprehension to create the dictionary squares. Use range(10) to return the keys, and use the square of each key as its value.**

**Answer 5:**

dict = {}

for k in range(10):

dict[k] = k\*\*2

print(dict)

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**Question 6. Construct the set odd from the odd numbers in the range using a set comprehension (10).**

**Answer 6 :**

## define empty set first

## as you know empty set can not be defined, it is considered as empty DICTIONARY

## SO I will first make empty LIST then append each element in empty list, and then convert that list into SET

List = []

for i in range(10):

if i%2 == 1:

List.append(i)

print(List)

## now convert List into dictionary

set(List)

OR

## defining empty set

a = set()

for i in range(10):

if i%2 == 1:

a.add(i)

print(a)

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**Question 7. Use a generator comprehension to return the string 'Got ' and a number for the numbers in range(10). Iterate through this by using a for loop.**

**Answer 7 :**

for number in range(10):

print('Got', number)

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**Question 8. Define a function called good that returns the list ['Harry', 'Ron', 'Hermione'].**

**Answer 8 :**

def good():

list = ['Harry', 'Ron', 'Hermione']

return list

good()

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**Question 9. Define a generator function called get\_odds that returns the odd numbers from range(10). Use a for loop to find and print the third value returned.**

**Answer 9 :**

def get\_odds():

for i in range(10):

if i%2 == 1 :

yield i

count = 1

for i in get\_odds():

if count ==3:

print(i)

break

count = count +1

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Question 10. Define an exception called OopsException. Raise this exception to see what happens. Then write the code to catch this exception and print 'Caught an oops'.

Answer 10 :

try:

raise OopsException

except :

print('Caught an oops')

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**Question 11. Use zip() to make a dictionary called movies that pairs these lists: titles = ['Creature of Habit', 'Crewel Fate'] and plots = ['A nun turns into a monster', 'A haunted yarn shop'].**

**Answer 11 :**

titles = ['Creature of Habit', 'Crewel Fate']

plots = ['A nun turns into a monster', 'A haunted yarn shop']

new\_dict = {titles:plots for titles,plots in zip(titles, plots) }

print(new\_dict)

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