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.

guess\_me =7

if guess\_me < 7:

print('Too low')

elif guess\_me >7:

print("Too High")

else:

print("right")

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.

guess\_me =7

start =1

while start <8:

if start < guess\_me:

print('Too low')

elif start == guess\_me:

print('Found')

break

elif start > guess\_me:

print("oops")

break

start +=1

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

for i in [3, 2, 1, 0] :

print(i)

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

[i for i in range(10) if i%2 ==0]

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.

{d[i]: i\*\*2 for i in range(10)}

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

odd= {i for i in range(10) if i%2 !=0}

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.

def f():

for i in range(10):

yield "GOT" + str(i)

ff = f()

next(ff)

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

def good():

return ['Harry', 'Ron', 'Hermione']

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.

def f():

count=3

for i in range(10):

if i%2 !=0:

yield i

if count ==i:

print('odd no'+ str(i)) ff = f()

next(ff)

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'.

if True:

raise Exception("OopsException")

**---------------------------------------------------------------------------**

**Exception** Traceback (most recent call last)

**<ipython-input-136-14975593b267>** in <module>

1 **if** **True:**

**----> 2 raise** Exception**("OopsException")**

**Exception**: OopsException

try:

if True:

raise Exception("OopsException")

except:

print('Caught an oops’)

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'].

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

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

dict(zip(titles,plots))

{'Creature of Habit': 'A nun turns into a monster',

'Crewel Fate': 'A haunted yarn shop'}