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.

ANS : - guess\_me = 7

if guess\_me < 7:

print('too low')

elif guess\_me > 7:

print('too high')

else:

print('just right')

2. guess\_me = 7

start = 1

while True:

if start < guess\_me:

print('too low')

elif start == guess\_me:

print('found it!')

break

else:

print('oops')

break

start += 1

ANS : -

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

ANS : - list = [3,2,1,0]

for i in list:

print(i)

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

ANS : - even\_numbers = [num for num in range(10) if num % 2 == 0]

print(even\_numbers)

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.

ANS : - squares = {num: num \*\* 2 for num in range(10)}

print(squares)

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

ANS : - odd = {num for num in range(10) if num % 2 != 0}

print(odd)

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.

ANS : - generator = ('Got ' + str(num) for num in range(10))

for item in generator:

print(item)

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

ANS : - def good():

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

results = good()

print(results)

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.

ANS : - def get\_odds():

for num in range(1, 10, 2):

yield num

g = get\_odds()

for \_ in range(3):

value = next(g)

print(value)

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'.

ANS : - try:

raise OopsException

except OopsException:

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'].

ANS : - titles = ['Creature of Habit', 'Crewel Fate']

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

movies = dict(zip(titles, plots))