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. 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.?

Ans:

```
guess_me = 7
 start = 1
 while True:
 if start < guess_me:</pre>
     print('too low')
 elif start == guess_me:
    print('found it!')
      break
  elif start > guess_me:
      print('oops')
      break
  start += 1
too low
too low
too low
too low
too low
found it!
```

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

Ans:

```
9]: lst = [3,2,1,0]
    for value in lst:
        print(value)
3
2
1
0
```

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

Ans:

```
[13]: even = [number for number in range(10) if number % 2 == 0]
even

:[13]: [0, 2, 4, 6, 8]
```

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:

```
$\frac{1}{2}:\ \text{ squares = {key: key*key for key in range(10)}} \text{ squares}
$\frac{1}{2}:\ \{0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81}
```

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

Ans:

```
odd = {number for number in range(10) if number % 2 == 1}
odd
]: {1, 3, 5, 7, 9}
```

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:

```
for thing in ('Got %s' % number in range(10)):
    print(thing)

Got 0
Got 1
Got 2
Got 3
Got 4
Got 5
Got 6
Got 7
Got 8
Got 9
```

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

Ans:

```
def good():
    return ['Harry', 'Ron', 'Hermione']
    good()

7]: ['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.?

Ans:

```
def get_odds():
    for number in range(1, 10, 2):
        yield number

count = 1
    for number in get_odds():
        if count == 3:
            print("The third odd number is", number)
            break
        count += 1
The third odd number is 5
```

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:

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: