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.

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.

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

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

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.

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

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.

8. Define a function called good that returns the list ['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.

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'.

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: 1. Here's the code for the conditional tests:

```python

guess\_me = 7

if guess\_me < 7:

print('too low')

elif guess\_me > 7:

print('too high')

else:

print('just right')

```

2. Here's the code for the while loop:

```python

guess\_me = 7

start = 1

while start <= guess\_me:

if start < guess\_me:

print('too low')

elif start == guess\_me:

print('found it!')

break

else:

print('oops')

break

start += 1

```

3. Here's the code to print the values of the list [3, 2, 1, 0] using a for loop:

```python

my\_list = [3, 2, 1, 0]

for value in my\_list:

print(value)

```

4. Here's the code to create a list of even numbers in the range(10) using list comprehension:

```python

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

print(even\_numbers)

```

5. Here's the code to create the dictionary squares using dictionary comprehension:

```python

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

print(squares)

```

6. Here's the code to construct the set odd from the odd numbers in the range using set comprehension:

```python

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

print(odd)

```

7. Here's the code to return the string 'Got ' and a number for the numbers in range(10) using generator comprehension and iterate through it using a for loop:

```python

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

for item in generator:

print(item)

```

8. Here's the code to define the function called `good` that returns the list `['Harry', 'Ron', 'Hermione']`:

```python

def good():

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

```

9. Here's the code to define the generator function called `get\_odds` that returns the odd numbers from `range(10)` and find and print the third value returned using a for loop:

```python

def get\_odds():

for num in range(10):

if num % 2 != 0:

yield num

count = 1

for odd\_num in get\_odds():

if count == 3:

print(odd\_num)

break

count += 1

```

10. Here's the code to define the `OopsException` exception, raise it, and then catch the exception to print 'Caught an oops':

```python

class OopsException(Exception):

pass

try:

raise OopsException

except OopsException:

print('Caught an oops')

```

11. Here's the code to use `zip()` to make a dictionary called `movies` that pairs the lists `titles` and `plots`:

```python

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

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

movies = dict(zip(titles, plots))

print(movies)

```