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.

In [1]:

```
guess_me=7
if guess_me<7:
    print("too low")

elif guess_me>7:
    print("too high")

else:
    print("just right")
```

just right

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

In [3]:

```
guess me=7
 2 start=1
   while True:
      if start<guess_me:</pre>
 5
            print("too low")
        elif start>guess me:
 6
 7
            print("oops")
 8
            break
9
        else:
            print("found it!")
10
            break
11
13
        start+=1
```

```
too low
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.

```
In [4]:
```

```
1  for i in [3, 2, 1, 0]:
    print(i)
3
2
1
0
```

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

```
In [6]:
```

```
1 print([i for i in range(2,10+1) if i%2==0])
[2, 4, 6, 8, 10]
```

5. Use a dictionary comprehension to create the dictionary squares. Use range(10) to return thekeys, 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).

```
In [9]:
    1 print({i for i in range(1,10) if i%2==0})
{8, 2, 4, 6}
```

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.

```
In [10]:
```

```
1  def gene():
2     for i in range(1,11):
3         yield "Got",i

6     k=gene()
7     8     for i in range(10):
9         print(next(k))
```

```
('Got', 1)
('Got', 2)
('Got', 3)
('Got', 4)
('Got', 5)
('Got', 6)
('Got', 7)
('Got', 8)
('Got', 9)
('Got', 10)
```

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

```
In [11]:
```

```
1 def good():
2   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.

```
In [17]:
```

```
1
    def gene():
        for i in range(1,10):
            if i%2!=0:
 3
 4
                 yield i
 5
 6
   gen=gene()
 7
    for i in range(3):
 8
        d=next(gen)
 9
        if i==2:
10
            print(d)
11
12
```

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'.

In [19]:

```
class OopsException(Exception):
    pass
try:
    raise OOpsException()
except Exception as e:
    print('Caught an oops')
```

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'].

In [22]:

```
titles = ['Creature of Habit','Crewel Fate']
plots = ['A nun turns into a monster', 'A haunted yarn shop']
l=list(zip(titles,plots))
k={}
for i in range(len(l)):
    k[l[i][0]]=l[i][1]
print(k)
```

{'Creature of Habit': 'A nun turns into a monster', 'Crewel Fate': 'A haun ted yarn shop'}