**Assignment 1**

1. **Range function.**
2. Version 2.

>>> range (10)

[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

The range function gives the output as the list. As only one argument was given the list starts from 0.

>>> range (5,10)

[5, 6, 7, 8, 9]

When the staring point is given, the list starts from the given point.

1. Version 3.

>>> x= range (10)

>>> x

range(0, 10)

>>> for num in range (10):

... print (num)

...

0

1

2

3

4

5

6

7

8

9

The out for the version 3 is not in the form of list. It gives output as object.

1. **xrange function.**
2. Version 2.

>>> for i in xrange (10):

print (i)

0

1

2

3

4

5

6

7

8

9

Here xrange function gives the output as object, it is not the list. Also, the range is up to but not including the number. As only one argument was given in, the range started from 0.

1. Version 3.

>>> for i in xrange (10):

... print (i)

...

Traceback (most recent call last):

File "<stdin>", line 1, in <module>

NameError: name 'xrange' is not defined

Xrange here gives the error saying that the ‘xrange’ is not defined. Hence, it is not the function in version 3.