

1)

A list is a sequence or collection

Simple variables are not collections

2) PROGRAM THIS:

```
my_list = [1, 'brown', 4.566]
```

```
print(my_list)
```

2) Lists can be empty

3) PROGRAM

```
print('length of list is ', len(my_list))
```

4) PROGRAM

```
for i in [5,4,3,2,1]:
```

```
    print (i)
```

```
print('Blastoff')
```

Write the output in the white space to the right ---

5) PROGRAM

```
friends = ['Jane', 'Tomas', 'Max']
```

```
for friend in friends:
```

```
    print ('Happy New Year', friend)
```

6) If I write `x1=friendsp[1]` which name will it print?

Here [1] is an index operator

7) PROGRAM

```
fruit = ('Fruit')  
x = fruit.lower()  
print (x)
```

Write the output in the white space to the right --- fruit

8) The range function - PROGRAM

```
for x in range(4,20,4):
```

```
    print(x)           4,8,12,16
```

9) PROGRAM – NOTE that list generates a list

```
my_list=list(range(1,10))
```

```
print(my_list)  output in the white space to the right [1,2,3,4,5,6,7,8,9]
```

10) PROGRAM

```
friends = ['Jane','Tomas','Max']
```

```
for i in range(len(friends)):
```

```
    friend = friends[i]
```

```
    print ('Happy New Year', friend)
```

Write the output in the white space to the right --- Happy New Year Jane

Happy New Year Tomas

Happy New Year Max