

# Assignment

```
In [2]: pythonlist = ['Ama', 54, 'Kojo', 45.5, 'Yhup', 52, 'Kwame', 96, 'Kwesi', 87, 'Roland', True, 'Nti',
                    45, 78.5, 'William', 68, 45.3, 78, 'Patty', False, 98, True, 'Adwoa',21, 65, 'Pappy',
                    14, 'Folly', False, 52, 'Pency']
```

1. create four lists: a. Floats b. Ints c. Strings d. Booleans
2. Place each item in the "pythonlist" in the right set created above.
3. For the strings and booleans sets, sort the items
- 4.

## Question 1

```
In [3]: import numpy as np
```

```
In [22]: floats = [e for e in np.arange(5,20,0.5)]
floats

list(np.arange(2,8,0.5))
```

```
Out[22]: [2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5]
```

```
In [23]: list(np.arange(5,20,0.5))
```

```
Out[23]: [5.0,
5.5,
6.0,
6.5,
7.0,
7.5,
8.0,
8.5,
9.0,
9.5,
10.0,
10.5,
11.0,
11.5,
12.0,
12.5,
13.0,
13.5,
14.0,
14.5,
15.0,
15.5,
16.0,
16.5,
17.0,
17.5,
18.0,
18.5,
19.0,
19.5]
```

## b ints

```
In [29]: inter = [i for i in range(2,20)]
inter
```

```
Out[29]: [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19]
```

```
In [28]: list(range(2,20))
```

```
Out[28]: [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19]
```

## c. Strings

```
In [36]: names = ["charity","20", "korkor", "Iphone", "Bag", "3.17"]
names
```

```
Out[36]: ['charity', '20', 'korkor', 'Iphone', 'Bag', '3.17']
```

## d. Booleans

## Question 2

```
In [41]: floats = [45.5, 78.5, 45.3,]
floats
```

```
Out[41]: [45.5, 78.5, 45.3]
```

```
In [42]: ints = [54, 52, 96, 87, 45, 68, 78, 98, 21, 65]
ints
```

```
Out[42]: [54, 52, 96, 87, 45, 68, 78, 98, 21, 65]
```

```
In [51]: strings = ['Ama', 'Kojo', 'Yhup', 'Kwame', 'Kwesi', 'Roland', 'Nti', 'William', 'Patty', 'Adwoa', 'Pappy', 'Folly', 'Pency']
strings
```

```
Out[51]: ['Ama',
'Kojo',
'Yhup',
'Kwame',
'Kwesi',
'Roland',
'Nti',
'William',
'Patty',
'Adwoa',
'Pappy',
'Folly',
'Pency']
```

```
In [43]: booleans = [True, False, False]
booleans
```

```
Out[43]: [True, False, False]
```

## Question 3

```
In [53]: strings = ['Ama', 'Kojo', 'Yhup', 'Kwame', 'Kwesi', 'Roland', 'Nti', 'William', 'Patty', 'Adwoa', 'Pappy', 'Folly', 'Pency']
strings.sort()
strings
```

```
Out[53]: ['Adwoa',
'Ama',
'Folly',
'Kojo',
'Kwame',
'Kwesi',
'Nti',
'Pappy',
'Patty',
'Pency',
'Roland',
'William',
'Yhup']
```

```
In [54]: booleans = [True, False, False]
booleans.sort()
booleans
```

```
Out[54]: [False, False, True]
```