```
# 3rd March
```

```
# data strucuture - user will define the value more than one
```

```
l = []
l
```

```
[]
```

```
l.append(10)
```

```
l
```

```
[10, 10]
```

```
len(l)
```

```
2
```

```
l.append(20)
l.append (30)
l.append (40)
l.append (50)
```

```
l
```

```
[10, 10, 20, 30, 40, 50]
```

```
id(l)
```

```
137872896890176
```

```
print(type(l))
```

```
<class 'list'>
```

```
import keyword
keyword.kwlist
```

```
['False',
 'None',
 'True',
 'and',
 'as',
 'assert',
 'async',
 'await',
 'break',
 'class',
 'continue',
 'def',
 'del',
 'elif',
 'else',
 'except',
 'finally',
 'for',
 'from',
 'global',
 'if',
 'import',
 'in',
 'is',
 'lambda',
 'nonlocal',
 'not',
 'or',
 'pass',
 'raise',
 'return',
 'try',
```

```
    'while',
    'with',
    'yield']
```

```
l
```
```
[10, 10, 20, 30, 40, 50]
```

```
l [:]
```
```
[10, 10, 20, 30, 40, 50]
```

```
l[1]
```
```
10
```

```
l[1]
```
```
10
```

list slicing

```
l[-3]
```
```
30
```

```
l1 = l.copy()
l1
```
```
[10, 10, 20, 30, 40, 50]
```

```
print(len(1))
```
```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-25-36d2f578b221> in <cell line: 0>()
----> 1 print(len(1))

TypeError: object of type 'int' has no len()
```

Next steps: (**Explain error**)

```
l1.append(2.3)
l1.append(True)
l1.append(1+3j)
```

```
l1
```
```
[10, 10, 20, 30, 40, 50]
```

```
l.count(10)
```
```
2
```

```
l2 = l1.copy()
```

```
l2
```
```
[10, 10, 20, 30, 40, 50]
```

```
l2.clear()
```

```
l2
```
```
[]
```

```
del l2
```

```
l2
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-35-ea320d2ace30> in <cell line: 0>()
----> 1 l2

NameError: name 'l2' is not defined
```

Next steps: (**Explain error**)