List (Dynamic Sized Array) Introduction

List

→ Dynamic Size

→ Allows items in different types

```
l = [10, 20, 30, 40, 50]
print(l)
print(l[3])
print(l[-1])
print(l[-2])
# Example program
# for list item access
```

Output:
[10, 20, 30, 40, 50]
40
50
40

```
l = [10, 20, 30, 40, 50]
l.append(30)
print(l)
i.insert(1, 15)
print(l)
print(15 in l)
print(l.count(30))
print(l.index(30))
print(l.index(30, 4, 7))
# Example program
# for list item insert and search
```

Output:
[10,20,30,40,50,30]
[10,15,20,30,40,50,30]
True
2
3
6

```
l = [10, 20, 30, 40, 50, 60, 70, 80]
l.remove(20)
print(l)
print(l.pop())
print(l)
print(l.pop(2))
print(l)
del l[1]
print(l)
del[0:2]
print(l)
# Example program
# for list item remove
```

Output:
[10, 30, 40, 50, 60, 70, 80]
80
[10, 30, 40, 50, 60, 70]
40
[10, 30, 50, 60, 70]
[10, 50, 60, 70]
[60, 70]

```
l = [10, 40, 20, 50]
print(max(l))
print(min(l))
print(sum(l))
l.reverse()
print(l)
l.sort()
print(l)
# Example program
# some general purpose function
```

Output:
50
10
120
[50, 20, 40, 10]
[10, 20, 40, 50]