

python assignment (basics) 10 (practical)

1:

```
l = [1,2,3,4,5,6,7,8,9,10]
```

```
a = sum(l)
```

```
print(a)
```

2:

```
l = [1,2,3,4,5,6,7,8,9,10]
```

```
ss = 1
```

```
for i in l:
```

```
    ss = ss * i
```

```
print(ss)
```

3:

```
print(min([1,2,3,4,5,6,7,8,9,10]))
```

4:

```
print(max([1,2,3,4,5,6,7,8,9,10]))
```

5:

```
z = [1,100,121,45,44,44,98,99,99,32,32,120,200]
z1 = z.copy()
unique_elements = set(z1)
distinct_list = list(unique_elements)
distinct_list.sort()
print('The second highest element in the list is: ',distinct_list[-2])
```

6:

```
u = [1,100,121,45,44,44,98,99,99,32,32,120,200,121,120]
u1 = u.copy()
unique_elements = set(u1)
distinct_list = list(unique_elements)
distinct_list.sort()
distinct_list
```

```
u2 = []
```

```
j = 0
```

```
while True:
```

```
    i = int(input('Enter a number: '))
```

```
    if i <= len(distinct_list):
```

```
        break
    else:
        print('Enter a number less than ',len(distinct_list))

while j < i:
    b = distinct_list.pop()
    u2.append(b)
    j += 1
print('The ',i,'highest elements in the list are: ',u2)
```

7:

```
l = []
```

```
for i in range(0,51,2):
    l.append(i)
```

```
print(l)
```

8:

```
l = []
```

```
for i in range(0,51):
    if i%2!=0:
        l.append(i)
```

```
print(l)
```

9:

```
l = [[],[1,2,'afag',True],[121,23.1,(2+2j)],[],27,'sjdjd',True,23]
```

```
for i in l:
```

```
    if type(i)==list:
```

```
        if len(i)==0:
```

```
            l.remove(i)
```

```
print(l)
```

10:

```
l = [[1, 2, 'afag', True], [121, 23.1, (2+2j)], 27, 'sjdjd', True, 23]
```

```
l1 = l.copy()
```

```
print(l1)
```

11:

```
l.count(value)
```