

Assignment:4

1. You have given a Python list. Write a program to find value 20 in the list, and if it is present, replace it with 200. Only update the first occurrence of an item.

Given input : list1 = [5, 10, 15, 20, 25, 50, 20]

Expected output: [5, 10, 15, 200, 25, 50, 20]

#Find the first occurrence of 20 in the given list and replace it with 200

```
list1=[5,10,15,20,25,50,20]
for index in range(0,len(list1)):
    if list1[index]==20:
        i= index
        break
list2=list1[:i]+[200]+list1[i+1:]
print(list2)
```

[5, 10, 15, 200, 25, 50, 20]

=====

2. Given a Python list, write a program to remove all occurrences of item 20.

Given input : list1 = [5, 20, 15, 20, 25, 50, 20]

Expected output:[5, 15, 25, 50]

#Remove all the occurrences of item 20 from the given list

```
list1=[5,20,15,20,25,50,20]
j=[]
for i in list1:
    if i!=20:
        j.append(i)
print(j)
```

[5, 15, 25, 50]

=====

3. Given a two Python list. Write a program to iterate both lists simultaneously and display items from list1 in original order and items from list2 in reverse order.

Given input :

```
list1 = [10, 20, 30, 40]
```

```
list2 = [100, 200, 300, 400]
```

Expected output:

```
10 400
```

```
20 300
```

```
30 200
```

```
40 100
```

```
# iterate 2 lists at the same time and print list 1 in original order and list 2 in reverse order
```

```
list1=[10,20,30,40]
```

```
list2=[100,200,300,400]
```

```
for i in range (0,len(list1)):
```

```
    print(list1[i],list2[-(i+1)])
```

```
10 400
```

```
20 300
```

```
30 200
```

```
40 100
```

```
=====
```