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#Task 1

```
rivers = [
{"name": "Nile", "length": 4157},
{"name": "Yangtze", "length": 3434},
{"name": "Murray-Darling", "length": 2310},
{"name": "Volga", "length": 2290},
{"name": "Mississippi", "length": 2540},
{"name": "Amazon", "length": 3915}
]
```

```
for a in rivers:
   print(a["name"])
```

```
i=0
for b in rivers:
   d=b["length"]
   i=i+d
print("total length is", i)
```

```
for f in rivers:
   if f["name"].startswith("M"):
      print("river name with M are", f["name"])
```

```
for b in rivers:
   print("new length is", b["length"]*1.6)
```

#Task 2

```
List_1=[1.0, 2.0, 4.5]
List_2=[2.0, 4.5, 5.0]
my_list=[]
for c in List_1:
    if c in List_2  and c not in my_list:
        my_list.append(c)
print("overlap are",my_list)


my_list=[]
for c in List_1:
    if c in List_2  and c in my_list:
        my_list.append(c)
print("overlap are",my_list)

my_list1=[]
for m in List_1:
    if m not in List_2:
        my_list1.append(m)
    elif m in List_2:
        my_list1.append(m)
    else:
        print("repeated objects")
for m in List_2:
    if m not in List_1:
        my_list1.append(m)
    else:
        print("repeatwed objects")
print("distinct object are",my_list1)
```

```
========== RESTART: C:/Users/PC-04-CL-SNS-NUST/AppData/Local/Programs/Python/Python311/rivers.py ==========
Nile
Yangtze
Murray-Darling
Volga
Mississippi
Amazon
total length is 18646
river name with M are Murray-Darling
river name with M are Mississippi
new length is 6651.200000000001
new length is 5494.400000000001
new length is 3696.0
new length is 3664.0
new length is 4064.0
new length is 6264.0
overlap are [2.0, 4.5]
overlap are []
repeatwed objects
repeatwed objects
distinct object are [1.0, 2.0, 4.5, 5.0]
```