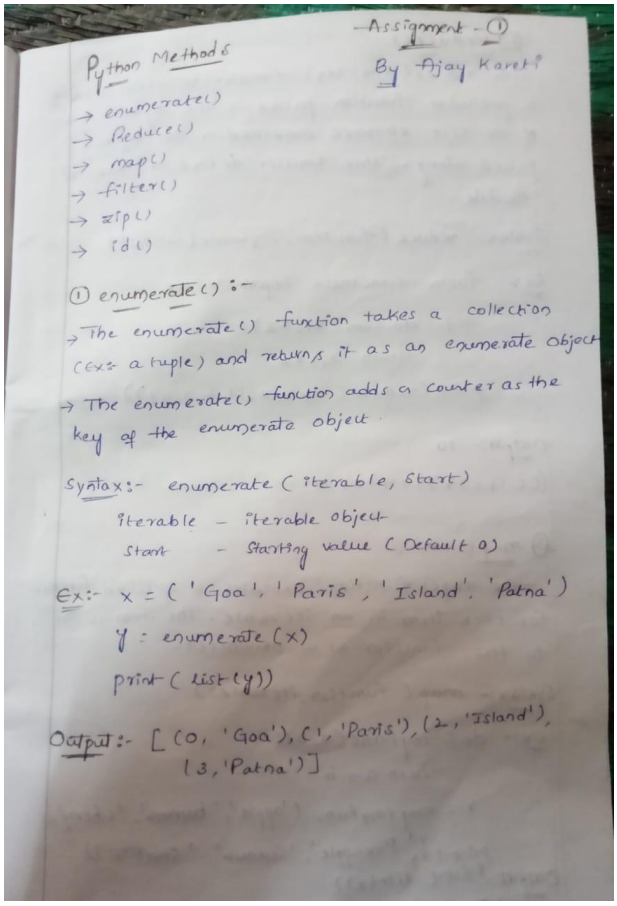
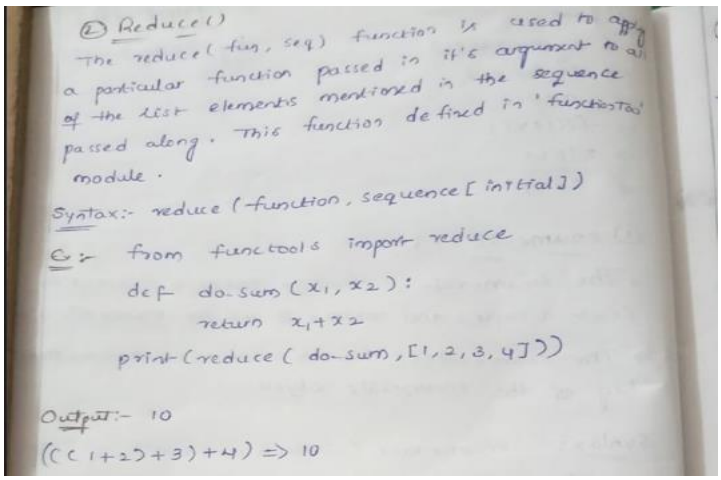
Python: Assignment-1



In [1]:
```
x=('Goa','Paris','Island','Patna')
y=enumerate(x)
print(list(y))
```

```
[(0, 'Goa'), (1, 'Paris'), (2, 'Island'), (3, 'Patna')]
```



In [4]:
```
from functools import reduce
def do_sum(x1,x2):
    return x1+x2
print(reduce(do_sum,[1,2,3,4]))
```

```
10
```

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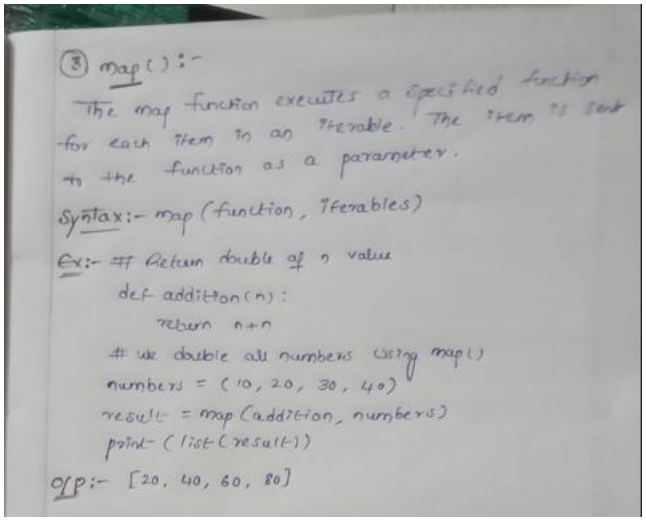
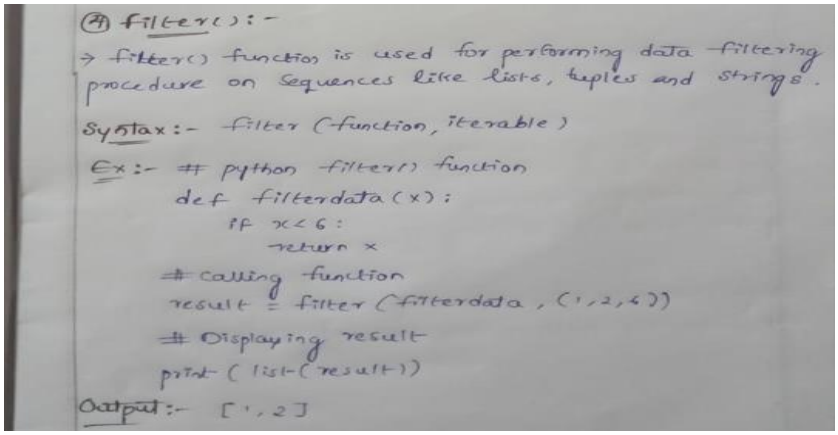


In [13]:
```
# Return double of n
def addition(n):
    return n + n

# We double all numbers using map()
numbers = (10, 20, 30, 40)
result = map(addition, numbers)
print(list(result))
```

```
[20, 40, 60, 80]
```



In [18]:
```
# Python filter() function example
def filterdata(x):
    if x<6:
        return x
# Calling function
result = filter(filterdata,(1,2,6))
# Displaying result
print(list(result))
```

```
[1, 2]
```

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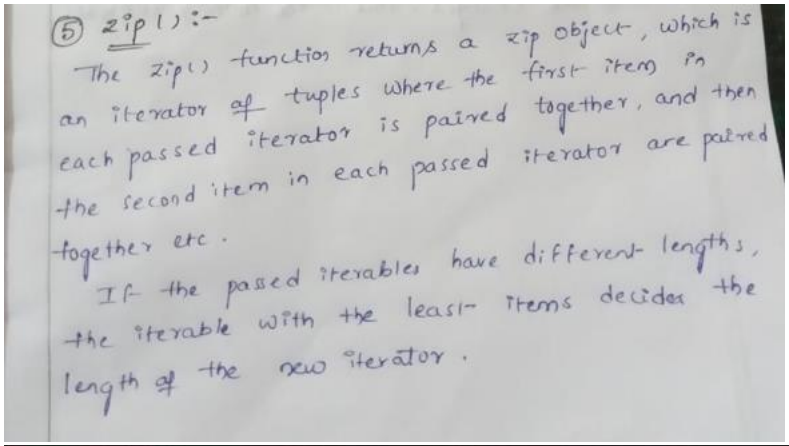
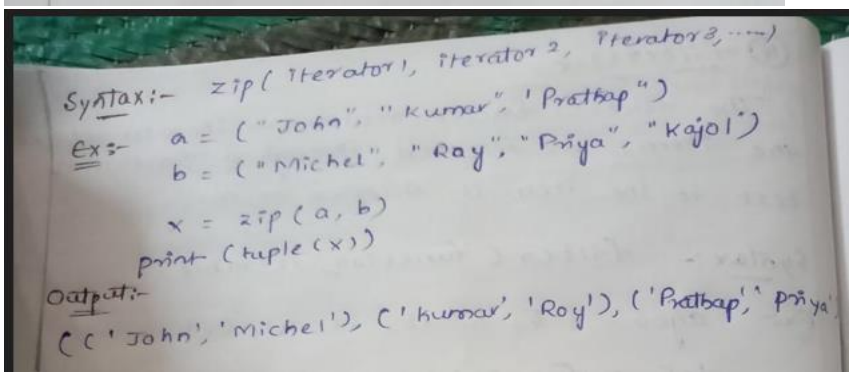
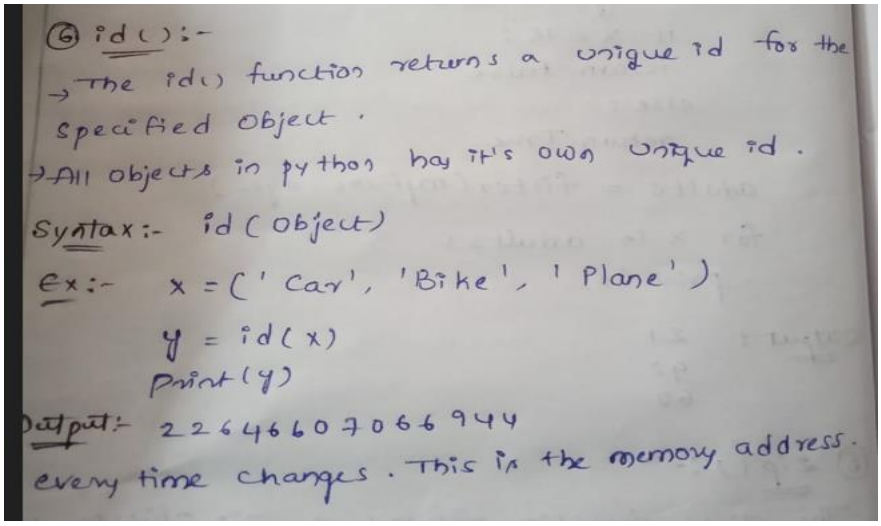




In [10]:
```
a=("John","Kumar","Prathap")
b=("Michel","Roy","Priya","Kajol")
X=zip(a,b)
print(tuple(X))
```

```
(('John', 'Michel'), ('Kumar', 'Roy'), ('Prathap', 'Priya'))
```



In [11]:
```
X=('Car','Bike','Plane')
y=id(X)
print(y)
```

```
2822999750272
```

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