```python
def av(num):
    sum=0
    n=len(num)
    for i in num:
        sum+=i
    print(f"avarage is {sum/n}")
num=[1,2,3,4,5,5,6]
av(num)

def word(li):
    length=0
    for item in li:
        if(len(item)>length):
            length=len(item)
    return length
name="my name is mariam"
name=name.split()
word(name)


def convertor(temp):
    f=temp*(float(9/5))+32
    k=float( temp+273.15)
    return f , k
print(convertor(35))
```

```
(95.0, 308.15)
```

```python
num=[1,2,3,4,5,6,7,8,9]
num=[i**2 for i in num ]
print(num)
```

```
[1, 4, 9, 16, 25, 36, 49, 64, 81]
```

```python
def upperword(li):
    return [word.upper() for word in li]
name="my name is mariam"
name=name.split()
print(upperword(name))
```

```
['MY', 'NAME', 'IS', 'MARIAM']
```

```python
def prime(n):
    if n<2:
        return True
    for i in range(2,int(n**0.5)+1):
        if n%i==0:
            return False
        else:
            return True
```

```python
print(prime(6))
```

```
False
```

```python
def total(li):
    tax=0.12
    newli=[]
    for i in li:
        i+=i*tax
        newli.append(i)
    return newli
meal=[50,90,8,0,70,40,41,45]
print(total(meal))
```

```
[56.0, 100.8, 8.96, 0.0, 78.4, 44.8, 45.92, 50.4]
```

```python
def maxmin(li):
    li.sort()
    return li[0], li[len(li)-1]
li=[3,88,4,9,6,5,4,7,4]
print(maxmin(li))
```

```
(3, 88)
```

```python
def validation(email):
    if '@' in email:
        email=email.split("@")
        if email[1]=="gmail.com":
            return True
        else:
            return False
    else:
        return False
email="elghazaly25.gmail.com"
print(validation(email))
```

```
False
```

```python
def freq(word):
    frequency = {}
    for char in word:
        if char in frequency:
         frequency[char] += 1
        else:
         frequency[char] = 1

    return frequency
```

```
name="my name is mariam"
print(freq(name))

{'m': 4, 'y': 1, ' ': 3, 'n': 1, 'a': 3, 'e': 1, 'i': 2, 's': 1, 'r':
1}
```