```
# Function
# Week 05
# Richa Patel.
```

In [144]:
```
#Enter hours and rate
#logic to do computatation
# call function

hours = float(input("Enter the hours: "))
rate = float(input("Enter the rate: "))

def computpay(hours,rate):
    if(hours < 40 ):
        basepay = hours * rate
        print(basepay)
    else:
        total = (40 * rate) + ((hours - 40) * rate * 1.5)
        print(total)

computpay(hours,rate)
```

```
Enter the hours: 45
Enter the rate: 10.50
498.75
```

```
# LIST
```

In [145]:
```
#open files
#read line by line
#list of words use split()
#sort by alphabetical
#print

rfile = open('romeo.txt')
words = list()
for line in rfile:
    value=line.split()
    for word in value:
        if word in words:
            continue
        else:
            words.append(word)
    words.sort()

print("List of words: ", words)
```

```
List of words:  ['Arise', 'But', 'It', 'Juliet', 'Who', 'already', 'a
nd', 'breaks', 'east', 'envious', 'fair', 'grief', 'is', 'kill', 'lig
ht', 'moon', 'pale', 'sick', 'soft', 'sun', 'the', 'through', 'what',
'window', 'with', 'yonder']
```

```
# DICTONARIE
# read through the mbox-short.txt file
# looks for 'From ' lines and takes the second word
# logic for who has the sent the greatest number of mail
```

In [146]:
```
file = open('mbox-short.txt')

count = dict()
for line in file:
     if line.startswith('From '):
        names = line.split()[1]
        count[names] = count.get(names,0) + 1
        greatcount = None
        greatword =  None
        for name,value in count.items():
            if greatcount is None or value > greatcount:
                    greatword = name
                    greatcount = value
print("Greatest no of times sent mail: ", greatword, greatcount)
file.close()
```

```
Greatest number of times sent mail with emailid :  cwen@iupui.edu 5
```

In [ ]: