```
2. leap year
start = int(input("enter start"))
end = int(input("end year"))
print("leap years")
for year in range(start,end):
        if(year \% 4 == 0) and (year \% 100 != 0) or (year \%400 == 0):
                print (year)
3.a.generate positive list of number from a given list of numbers
```

```
I=[-2,5,-6,7,3,-9]
#b=[]
for i in I:
         if i <= 0:
                  print(i)
```

3.b.square of N numbers

```
a=[]
n=int(input("size"))
print("enter list elements")
for i in range(0,n):
        a.append(int(input()))
r=[i*i for i in a]
print(r)
```

3.c.

3.d.

```
4.count the occurrences of each word in a line of text
import string
# Open the file in read mode
text = open("sample.txt", "r")
# Create an empty dictionary
d = dict()
# Loop through each line of the file
for line in text:
        # Remove the leading spaces and newline character
        line = line.strip()
        # Convert the characters in line to
        # lowercase to avoid case mismatch
        line = line.lower()
        # Remove the punctuation marks from the line
        line = line.translate(line.maketrans("", "", string.punctuation))
        # Split the line into words
        words = line.split(" ")
        # Iterate over each word in line
        for word in words:
                # Check if the word is already in dictionary
                if word in d:
                        # Increment count of word by 1
                        d[word] = d[word] + 1
                else:
```

Add the word to dictionary with count 1

d[word] = 1

Print the contents of dictionary

print(key, " ", d[key])

for key in list(d.keys()):

5.prompt the user for a list of integers. For all values greater than 100, store 'over' instead.