In [26]:

```python
# read content from text file
x=open("purva.txt","r")
y=x.read()
print(y)
x.close()
```

```
Beautiful is better than ugly.
The Explicit is better than implicit.
Simple is better than complex.
Complex is better than complicated.
Readability counts.
Beautiful
Bye
```

In [34]:

```python
#2
x=open("purva.txt","r")
lines=0
words=0
char=0
for i in x:
    lines+=1
    words+=len(i.split())
    char+=len(i.strip("\n"))
print("no of line:",lines)
print("no of words:",words)
print("no of characters:",char)
```

```
no of line: 7
no of words: 25
no of characters: 163
```

In [35]:

```python
#4
x=open("purva.txt","r")
n=int(input("enter no of lines:"))
for i in range(n):
    print(x.readline())
```

```
enter no of lines:3
Beautiful is better than ugly.

The Explicit is better than implicit.

Simple is better than complex.
```

In [36]:

```python
#3
x=open("purva.txt","r")
y=x.readlines()
l=max(y,key=len)
print(y)
print(l)
print(len(l))
```

```
['Beautiful is better than ugly.\n', 'The Explicit is better than implicit.\n', 'Simple is better than complex.\n',
'Complex is better than complicated.\n', 'Readability counts.\n', 'Beautiful\n', 'Bye\n']
The Explicit is better than implicit.

38
```

In [37]:

```python
#5
x=open("purva.txt","r")
y=x.readlines()
n=int(input("enter no of lines:"))
print(y[-n:])
```

```
enter no of lines:2
['Beautiful\n', 'Bye\n']
```

In [38]:

```python
#7
x=open("purva.txt","r")
y=x.readlines()
count=0
for i in y:
    if (i[0]=="b" or i[0]=="B"):
        count+=1
    else:
        pass
print("no of lines stating with b:",count)
```

no of lines stating with b: 3

In [39]:

```python
#6
from collections import Counter
def word_count(fname):
    with open(fname) as f:
        return Counter(f.read().split())
print("no of words:",word_count("purva.txt"))
```

no of words: Counter({'is': 4, 'better': 4, 'than': 4, 'Beautiful': 2, 'ugly.': 1, 'The': 1, 'Explicit': 1, 'implic
it.': 1, 'Simple': 1, 'complex.': 1, 'Complex': 1, 'complicated.': 1, 'Readability': 1, 'counts.': 1, 'Bye': 1})

In [40]:

```python
#8
def read_data():
    count=0
    f=open("purva.txt","r")
    s=f.readlines()
    for i in s:
        if i[0:3]=="The":
            count+=1
        else:
            pass
    print(count,"lines start with \'The'")
read_data()
```

1 lines start with 'The'

In [18]:

```python
#9
fname=input("enter file name:")
word=input("enter word to be searched:")
k=0
with open(fname,"r") as f:
    for line in f:
        words=line.split()
        for i in words:
            if i==word:
                k+=1
print("occurrences of the word:",k)
```

enter file name:purva.txt
enter word to be searched:is
occurrences of the word: 4

In [41]:

```python
#10
import re
original_string = open("purva2.txt").read()
new_string = re.sub("[^a-zA-Z0-9\n\.]"," ", original_string)
f=open("purva2.txt","w")
f.write(new_string)
f.close()
f=open("purva2.txt","r")
print(f.read())
```

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Old Wine pvt

master minds ltd

 apex labs ltd

 India New corp

Indo American pvt ltd

In [33]:

```python
#10
import re
original_string = open("purva4.txt").read()
new_string = re.sub("[^a-zA-Z0-9\n\.]"," ", original_string)
f=open("purva4.txt","w")
f.write(new_string)
f.close()
f=open("purva4.txt","r")
print(f.read())
```

```
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  India New corp

Indo American pvt ltdz
```

In [ ]:

In [ ]: