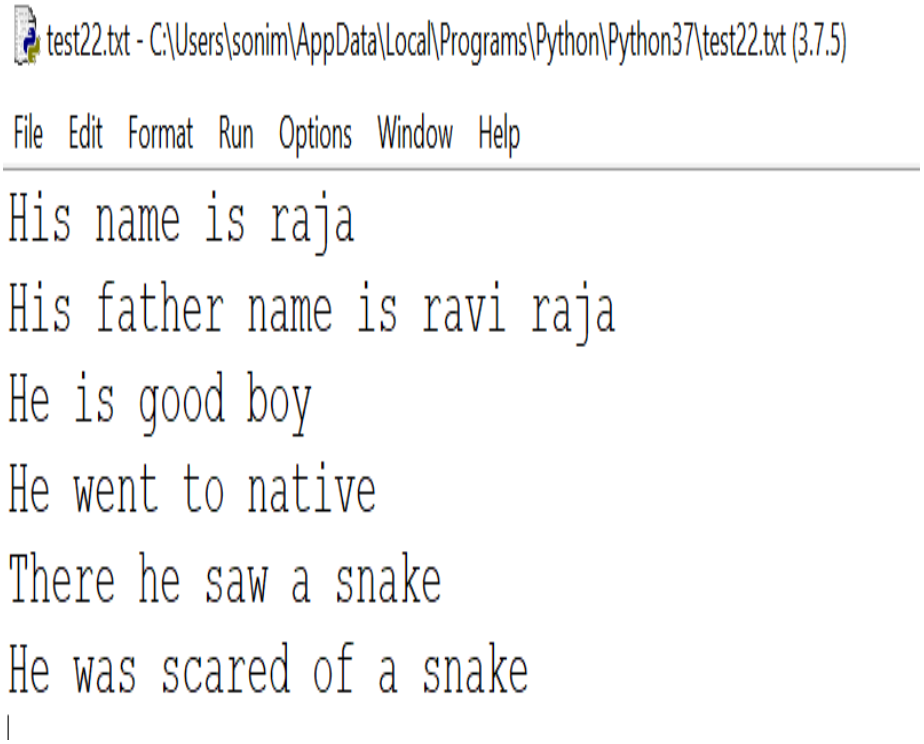
5. Develop a program to print 10 most frequently appearing words in a text file. [Hint: Use dictionary with distinct words and their frequency of occurrences. Sort the dictionary in the reverse order of frequency and display dictionary slice of first 10 items]

```
import pprint,operator
f=open('test22.txt')
content=f.read().lower()
w=content.split()
d={}
for key in w:
   d.setdefault(key,0)
   d[key]+=1
pprint.pprint(d)
sorted_d = sorted(d.items(), key=operator.itemgetter(1),reverse=True)
pprint.pprint(sorted_d) # sorted_d is a list of tuples
print('Dictionary in descending order by value : ')
for i in sorted_d[:10]:
   print(i)
```



```
{
 "his": 2,
 "name": 2,
 "is": 3,
 "raja": 2,
 "father": 1,
 "ravi": 1,
 "he": 4,
 "good": 1,
 "boy": 1,
 "went": 1,
 "to": 1,
 "native": 1,
 "there": 1,

 "saw": 1,
 "a": 2,
 "snake": 2,
 "was": 1,
 "scared": 1,
 "of": 1
}
```

```
Dictionary in descending order by value :
('he', 4)
('is', 3)
('his', 2)
('name', 2)
('raja', 2)
('a', 2)
('snake', 2)
('father', 1)
('ravi', 1)
('good', 1)
```

6. Develop a program to sort the contents of a text file and write the sorted contents into a separate text file. [Hint: Use string methods strip(), len(), list methods sort(), append(), and file methods open(), readlines(), and write()].

```
infile = open('poem.txt')

outfile = open('resultpoem.txt', 'w')

words = []

for line in infile.readlines():

 line=line.strip().split()

 for i in line:

  words.append(i)
```

```
infile.close()

words.sort()

le=len(words)

for i in words:

  outfile.write(i)

  outfile.write('\n')

outfile.write('Number of words '+str(le))

outfile.close()
```

8. Write a function named DivExp which takes TWO parameters a, b and returns a value c (c=a/b). Write suitable assertion for a>0 in function DivExp and raise an exception for when b=0. Develop a suitable program which reads two values from the console and calls a function DivExp.

```
def DivExp(a,b):

   assert a>0,  'Dividend should be greater than zero'

   if b!=0:

      c = a / b

      return c

   else:

      raise ZeroDivisionError('Division by zero is not allowed...')

a=int(input('Enter Dividend '))

b=int(input('Enter Divisor '))

c=DivExp(a,b)

print(c)
```