In [1]:
```
#Check length of each word excluding the word 'in'
para="We celebrate Gudi Padwa every year in Maharashtra with joy and enthusi
words=para.split()
lengthofword= []
for word in words:
    if word != "in":
        lengthofword.append(len(word))
print(words)
print(lengthofword)
```

```
['We', 'celebrate', 'Gudi', 'Padwa', 'every', 'year', 'in', 'Maharashtra', 'wit
h', 'joy', 'and', 'enthusiam']
[2, 9, 4, 5, 5, 4, 11, 4, 3, 3, 9]
```

In [2]:
```
#List comprenhension
para="We celebrate Gudi Padwa every year in Maharashtra with and enthusiam"
words=para.split()
lengthofword= [len(word) for word in words if word != "in"]
print(words)
print(lengthofword)
```

```
['We', 'celebrate', 'Gudi', 'Padwa', 'every', 'year', 'in', 'Maharashtra', 'wit
h', 'and', 'enthusiam']
[2, 9, 4, 5, 5, 4, 11, 4, 3, 9]
```

In [3]:
```
w1=set(["Mango","Banana","Jackfruit"])
w2=set(["Banana","Mango","Cherry"])
print(w1.intersection(w2))
```

```
{'Mango', 'Banana'}
```

In [4]:
```
w1=set(["Mango","Banana","Jackfruit"])
w2=set(["Banana","Mango","Cherry"])
print(w1.difference(w2))
```

```
{'Jackfruit'}
```

In [5]:
```
w1=set(["Mango","Banana","Jackfruit"])
w2=set(["Banana","Mango","Cherry"])
print(w1.union(w2))
```

```
{'Cherry', 'Mango', 'Jackfruit', 'Banana'}
```

In [6]:
```
# Exception Handling
try:
    print('hii')                                    # here'hii' is in string
except:
    print('This message will give an exception')
```

```
hii
```

In [7]:
```
try:
    print(s)                                    # 's' is in not quote it g
except:
    print('This message will give an exception')
```

```
This message will give an exception
```

In [8]:
```
try:
    print("Hello")
except:
    print("This message will give an exception")
finally:
    print("Try to make the above sentence correct")
```

```
Hello
Try to make the above sentence correct
```

In [9]:
```
num= int(input("Please enter a number: "))
print("Great, you successfully entered an integer")
```

```
Please enter a number: 3
Great, you successfully entered an integer
```

In [10]:
```
num=int(input("Please enter a number: "))
while True:
    try:
        num=input("Please enter a number: ")
        n=int(num)
        break
    except valueEerror:
        print("You here entered a string, Please enter a valid number....")
print("Great, you have successfully entered a number")
```

```
Please enter a number: 4
Please enter a number: 5
Great, you have successfully entered a number
```

In [11]:
```
num=int(input("Please enter a number: "))
while True:
    try:
        num=input("Please enter a number: ")
        n=int(num)
        break
    except valueError:
        print("You here entered a string, Please enter a valid number....")
print("Great, you have successfully entered a number")
```

```
Please enter a number: 4
Please enter a number: 5
Great, you have successfully entered a number
```

In [12]:
```
num=int(input("Please enter a number: "))
while True:
    try:
        num=input("Please enter a number: ")
        num=int(num)
        break
    except valueError:
        print("You here entered a string, Please enter a valid number....")
print("Great, you have successfully entered a number")
```

```
Please enter a number: 6
Please enter a number: hi

---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Input In [12], in <cell line: 3>()
      4 num=input("Please enter a number: ")
----> 5 num=int(num)
      6 break

ValueError: invalid literal for int() with base 10: 'hi'

During handling of the above exception, another exception occurred:

NameError                                 Traceback (most recent call last)
Input In [12], in <cell line: 3>()
      5         num=int(num)
      6         break
----> 7     except valueError:
      8         print("You here entered a string, Please enter a valid numbe
r....")
      9 print("Great, you have successfully entered a number")

NameError: name 'valueError' is not defined
```

In [13]:
```
num= 49
if num < 50:
    raise Exception ("Enter number above 50")
```

```
---------------------------------------------------------------------------
Exception                                 Traceback (most recent call last)
Input In [13], in <cell line: 2>()
      1 num= 49
      2 if num < 50:
----> 3     raise Exception ("Enter number above 50")

Exception: Enter number above 50
```

In [ ]:
```
1
```