

```
1 create an user defined exception "Not Accepted" when the user trying to addend
negative value in the list
```

In [13]:

```
1 lst = []
2 lim = int(input("Enter the limit: "))
3 for i in range (0,lim):
4     try:
5         num = int(input("Enter a number: "))
6         a=num<0
7         lst.append(num[i])
8     except num < 0:
9         print("Not Accepted")
10
11
12     print(lst)
```

Enter the limit: 5  
Enter a number: -45

```
-----
TypeError                                Traceback (most recent call last)
Input In [13], in <cell line: 3>()
      6     a=num<0
----> 7     lst.append(num[i])
      8 except num < 0:
```

**TypeError:** 'int' object is not subscriptable

During handling of the above exception, another exception occurred:

```
TypeError                                Traceback (most recent call last)
Input In [13], in <cell line: 3>()
      6     a=num<0
      7     lst.append(num[i])
----> 8     except num < 0:
      9         print("Not Accepted")
     13 print(lst)
```

**TypeError:** catching classes that do not inherit from BaseException is not allowed

In [25]:

```
1 class NotAccepted(Exception):
2     def display(self):
3         print("Negative Number not allowed")
4 lst = []
5 lim = int(input("Enter the Limit: "))
6 try:
7     for i in range(lim):
8         num = int(input("Enter number: "))
9         if (a>0):
10            lst.append(num)
11        else:
12            raise NotAccepted
13 except NotAccepted as n:
14     n.display()
15 print(lst)
```

Enter the Limit: 4  
Enter number: 1  
Enter number: 2  
Enter number: 4  
Enter number: -7  
[1, 2, 4, -7]

## File Handling

```
1 1.Read -r
2 2.Write File -w
3 3.Append File -a
```

In [41]:

```
1 with open ("first.txt","w")as f:
2     f.write("Hello\nTesting To Write a file\nThank You\n")
3 f.close()
```

In [45]:

```
1 with open("first.txt","r") as r:
2     temp = r.read()
3     print(temp)
```

Hello  
Testing To Write a file  
Thank You  
Appending a line  
Done.Appending a line  
Done.

In [63]:

```
1 with open ("first.txt","a")as f:
2     f.write("Appending      a line\nDone\t\t\t .")
3 f.close()
```

In [64]:

```

1 with open("first.txt","r") as r:
2     temp = r.read()
3     print(temp)

```

Hello

Testing To Write a file

Thank You

Appending a line

Done.Appending a line

Done.Appending a line

Done.ArjunAppending a line

Done

In [55]:

```

1 file_name = input("Enter the File Name: ")
2 mode = input("Enter the mode: ")
3 if mode == "w":
4     with open (file_name,"w")as f:
5         cont = input("Type Here")
6         print("\n")
7         f.write(cont)
8     f.close()
9 elif mode == "r":
10    with open(file_name,"r") as r:
11        temp = r.read()
12        print(temp)
13 elif mode == "a":
14    with open (file_name,"a")as f:
15        cont1 = input("Type Here: ")
16
17        f.write(cont1)
18    f.close()
19 else:
20    print("Wrong Input")
21
22

```

Enter the File Name:

Enter the mode:

Wrong Input

- 1 1. Write a program that counts the number of tabs,spaces and new line character in a file
- 2 2. Write a Program that accepts file name as an input from the user. Open the file and count the number of times a given character appears in the file.
- 3 3. Write a Program that reads the data from a file and calculate the percentage of vowels and consonants in the file.
- 4 4. Write a program that copies first ten character into another file

- 1 If mode is not mentioned then it is opened as read mode

In [59]:

```
1 #4. Write a program that copies first ten character into another file
2 with open("first.txt","r") as f:
3     with open("second.txt","w") as f1:
4         a = f.read(50)
5         f1.write(a)
```

In [67]:

```
1 #1. Write a program that counts the number of tabs,spaces and new line character in a j
2 with open("first.txt","r") as f1:
3     txt=f1.read()
4     tab_cnt = 0
5     space_cnt = 0
6     newline_cnt = 0
7     for char in txt:
8         if char == '\t':
9             tab_cnt+=1
10        if char == ' ':
11            space_cnt+=1
12        if char == '\n':
13            newline_cnt+=1
14    print("Tab:", tab_cnt)
15    print("Spaces:", space_cnt)
16    print("New Lines:", newline_cnt)
```

Tab: 3

Spaces: 19

New Lines: 7

In [ ]:

e user. Open the file and count the number of times a given character appears in the file.

In [70]:

```
1 name = input("Enter File Name: ")
2 with open(name,"r") as f1:
3     txt=f1.read()
4     char_read = 0
5     ltr = input('Enter The character to search: ')
6     for char in txt:
7         char = char.lower()
8         if char == ltr:
9             char_read+=1
10    print('The letter',ltr,"appears",char_read,"times in the file")
```

Enter File Name: first.txt

Enter The character to search: a

The letter a appears 11 times in the file

```
1 3. Write a Program that reads the data from a file and calculate the percentage of
   vowels and consonants in the file.
```

In [ ]:

```
1 name = input("Enter File Name: ")
2 with open(name,"r") as f1:
3     txt=f1.read()
4     char_read = 0
5     ltr = input('Enter The character to search: ')
6     for char in txt:
7         char = char.lower()
8         if char == ltr:
9             char_read+=1
10 print('The letter',ltr,"appears",char_read,"times in the file")
```