creating tuple from ziping two tuple summing element

In [ ]:
```
t1=1,2,3
t2=4,5,6
new = tuple(x+y for x,y in zip(t1,t2))
print(new)
```

write a program for the following task:

- input :1+2+3+1+5+1+1+2+3+1
- output:1+1+1+1+1+2+2+3+3+5

In [ ]:
```
s="1+2+3+1+5+1+1+2+3+1"
m=s.split("+")
"+".join(sorted(m))
```

write a program to validate a password

- it should contain atleast 8 element
- it should contain atlest 1 uppercase letter
- it should contain atleast 1 digit
- it should contain atlest 1 specific character fro @,_ and $

if above condition are not satisfied it should return not valid

In [4]:
```
password=input("enter your pass:")
l,u,p,d=0,0,0,0
if len(password)>=8 :
    for i in password:
        if i.isupper():
            u+=1
        if i.islower():
            l+=1
        if i.isdigit():
            d+=1
        if i in  "@_$":
            p+=1
    if 1>=1 and u>=1 and d>=1 and p>=1 and l+u+p+d==len(password):
        print("valid")
    else:
        print("not valid")
else:
    print("not valid")
```

```
enter your pass:Dwarkesh@123
valid
```

Wap to Encrypt given string

In [10]:
```
1
```

```
DEF
```

In [13]:
```
1  s=input("enter ")
2  ans=""
3  k=3
4  for i in s:
5      if(i!=" "):
6          shift = ord(i) + 3
7          if shift > ord('Z'):
8              shift -= 26
9          ans += chr(shift)
10     else:
11         ans+=" "
12 print(ans)
```

```
enter ABC XYZ
DEF ABC
```

- input :Indu business Machin
- output:IBM

In [16]:
```
1  s="LJIET ENG"
2  words = s.split()
3  ans = ''.join(i[0] for i in words)
4  print(ans)
```

```
LE
```

wrt to check if the given two string are balanced . the string s1 and s2 are balanced if the element of s1 are in s2 (in any order)

input- s1=lk s2=ljku

output- balanced

In [20]:
```
1  s1 = "lk"
2  s2 = "ljku"
3
4  if set(s1) <= set(s2):
5      print("balanced")
6  else:
7      print("not balanced")
8
```

```
not balanced
```

In [23]:
```
s1 = "lk"
s2 = "ljku"

balanced = all(char in s2 for char in s1)
if balanced:
    print("balanced")
else:
    print("not balanced")

```

```
balanced
```

In [24]:
```
s1 = "lk"
s2 = "ljku"

balanced = True
for char in s1:
    if char not in s2:
        balanced = False
        break

if balanced:
    print("balanced")
else:
    print("not balanced")

```

```
balanced
```

wrt program for a given email address extract the username

- input - mvp.mvp@gmail.com (mailto:mvp.mvp@gmail.com)
- output - mvp.mvp

In [29]:
```
email = "mvp.mvp@gmail.com"
abc=email.split('@')
username = abc[0]

print(username)

```

```
mvp.mvp
```

wrt for a given string perform following task

- input- aaabbccddsa
- output-a3b2c2d2sa

In [30]:

```
s = "aaabbccddsa"

result = ""
i = 0
while i < len(s):
    count = 1
    while i + 1 < len(s) and s[i] == s[i + 1]:
        i += 1
        count += 1
    if count > 1:
        result += s[i] + str(count)
    else:
        result += s[i]
    i += 1

print(result)

```

```
a3b2c2d2sa
```

In [ ]:

```

```