

```
n=15
i=1
while i<=10:
    print(n,'x',i,'=', n*i)
    i=i+1

15 x 1 = 15
15 x 2 = 30
15 x 3 = 45
15 x 4 = 60
15 x 5 = 75
15 x 6 = 90
15 x 7 = 105
15 x 8 = 120
15 x 9 = 135
15 x 10 = 150
```

```
a = [12,-3,10,5,-37,5]
for val in a:
    if val<=0:
        continue
    print(val)
print("the value is printed")

12
10
5
5
the value is printed
```

```
number = range (0,101)
sum =0
for i in number:
    sum+=i
print('sum=',sum)

sum= 5050
```

```
number = range (0,101)
sum =0
for i in number:
    sum+=i
print('sum=',sum)
```

```
sum= 2740
sum= 3003
sum= 3081
sum= 3160
sum= 3240
sum= 3321
sum= 3403
sum= 3486
sum= 3570
sum= 3655
sum= 3741
sum= 3828
sum= 3916
sum= 4005
sum= 4095
sum= 4186
sum= 4278
sum= 4371
sum= 4465
sum= 4560
sum= 4656
sum= 4753
sum= 4851
sum= 4950
sum= 5050
```

```
n=14
i=1
for i in range(0,10):
    i=i+1
    print(n,'x',i,'=',n*i)
```

```
14 x 1 = 14
14 x 2 = 28
14 x 3 = 42
14 x 4 = 56
14 x 5 = 70
14 x 6 = 84
14 x 7 = 98
14 x 8 = 112
14 x 9 = 126
14 x 10 = 140
```

```
num=[1,2,3,4,5,6,-1,-2,-3,0]
for val in num:
    print("val is ",val)
```

```
val is 1
val is 2
val is 3
val is 4
val is 5
val is 6
val is -1
val is -2
val is -3
val is 0
```

```
a = [1, 2, 3]
try:
    print ("Second element = %d" %(a[1]))
    # Throws error since there are only 3 elements in array
    print ("Fourth element = %d" %(a[3]))

except:
    print ("An Index error occurred")
```

```
Second element = 2
An Index error occurred
```

```
number = [8,9,80,4,5,6,-1,-2,-3,0]
for val in number:
    print('val is ',val)
    if val < 4:
        break
    print(val)
```

```

val is  8
8
val is  9
9
val is  80
80
val is  4
4
val is  5
5
val is  6
6
val is  -1

```

```

a=[1,2,5]
b=[1,2,5]

for val1 in a:
    for val2 in b:
        try:
            c=val1/(val1-val2)
            print(c)
        except ZeroDivisionError:
            print("an error occur" )

```

```

an error occur
-1.0
-0.25
2.0
an error occur
-0.666666666666666
1.25
1.666666666666667
an error occur

```

```

sum=0
while True:
    n=input("enter a number")
    n=int(n)
    if n<0:
        break
    sum +=n
print("sum=",sum)

enter a number7
enter a number5
enter a number9
enter a number-6
sum= 21

```

```

#REGULAR EXPRESSION
import re
text='Hello world'
X= re.findall("[a-p]",text)
print(X)

['e', 'l', 'o', 'o', 'l', 'd']

```

Double-click (or enter) to edit

```

#
import re
text='Hello world'
X= re.findall("e..o",text)
print(X)

['ello']

```

```

print(X)
print(type(X))
print(X[0])

['ello']
<class 'list'>
ello

print(X)
print(type(X))
y="ello"
print(y.strip("eo"))

['ello']
<class 'list'>
ll

import re
text='Hello world'
X= re.findall("e..o",text)
print(X)
print(type(X))
string=""
for i in X:
    string+=i
print(i.strip("eo"))

['ello']
<class 'list'>
ll

import re
text='Hello world'
X= re.findall("e..o",text)
print(X)
print(type(X))
string=""
for i in X:
    string+=i
print(i[1:-1])

['ello']
<class 'list'>
ll

#REGULAR EXPRESSION
import re
text='ello'
X= re.findall("[ll]+",text)
print(X)

['ll']

import re
text='Hello world'
X= re.findall("e..o",text)
print(X)
res= map(lambda X:X[1:-1],X)
print(res)

['ello']
<map object at 0x7ff4bb563610>

import re
text='Hello world'
X= re.findall("e..o",text)
print(X)

['ello']

```

```
#REGULAR EXPRESSION
import re
text='The raining falls mainly in plain'
X= re.findall("[arn]",text)
print(X)

['r', 'a', 'n', 'n', 'a', 'n', 'n', 'a', 'n']

#REGULAR EXPRESSION
import re
text='The raining falls mainly in plain'
X= re.findall("a|r|n",text)
print(X)

['r', 'a', 'n', 'n', 'a', 'n', 'n', 'a', 'n']

#REGULAR EXPRESSION
import re
text='The raining falls mainly in plain'
X= re.findall("[^arn]",text)
print(X)

['T', 'h', 'e', ' ', 'i', 'i', 'g', ' ', 'f', 'l', 'l', 's', ' ', 'm', 'i', 'l', 'y', ' ', 'i', ' ', 'p', 'l', 'i']

#print the digit
import re
text='2 drops rain falls in a 3d plain'
X= re.findall("[1234]",text)
print(X)

['2', '3']

#print any digit
import re
text='24 or 44 drops rain falls in a 3d plain'
X= re.findall("[\d]+",text)
print(X)

['24', '44', '3']

#print any digit
import re
text='24 or 44 drops rain falls in a 3d plain'
X= re.findall("[0-9]+",text)
print(X)

['24', '44', '3']

#match b/w any character/LETTER lower or upper
import re
text='24 or 44 Drops Rain Falls In a 3d Plain'
X= re.findall("[a-z]+|[A-Z]+",text)
print(X)

['o', 'r', 'D', 'rops', 'R', 'ain', 'F', 'alls', 'I', 'n', 'a', 'd', 'P', 'lain']

#match b/w any character/LETTER lower or upper
import re
text='24 or 44 Drops Rain Falls In a 3d Plain'
X= re.findall("[a-z]||[A-Z]",text)
print(X)

'o', 'r', ' ', ' ', ' ', ' ', ' ', 'D', 'r', 'o', 'p', 's', ' ', ' ', 'R', 'a', 'i', 'n', ' ', ' ', 'F', 'a', 'l', 'l', 's', ' ', ' ', 'I', 'n', ' ']
```



```
#match b/w any character/LETTER lower or upper
import re
```

```

text='24 or 44 Drops Rain Falls In a 3d Plain'
X= re.findall("[a-z|A-Z]",text)
print(X)

['o', 'r', 'D', 'r', 'o', 'p', 's', 'R', 'a', 'i', 'n', 'F', 'a', 'l', 'l', 's', 'I', 'n', 'a', 'd', 'P', 'l', 'a', 'i', 'n']

import re
text='24 or 44 Drops Rain Falls In a 3d Plain'
X= re.findall("[a-z-A-Z]",text)
print(X)

['o', 'r', 'D', 'r', 'o', 'p', 's', 'R', 'a', 'i', 'n', 'F', 'a', 'l', 'l', 's', 'I', 'n', 'a', 'd', 'P', 'l', 'a', 'i', 'n']

import re
text="24-05-2022 gopika 05-00-2000 34-4-2022 25-03-2023"
x=re.findall("((0[1-9]|1[2][0-9]|3[0-1])[-](0[1-9]|1[0-2])[-]([0-9][0-9][0-9][1-9]+)|([1-9][0-9][0-9][0-9]+))",text)

print(x)

[('24-05-2022', '24', '05', '2022', ''), ('2000', '', '', '', '2000'), ('2022', '', '', '', '2022'), ('25-03-2023', '25', '03', '2023', '')]

import re
text="24-05-2022 gopika 0-00-2000 34-4-2022 25-03-2023"
date_regex = r'(?:(0[1-9]|1[2][0-9]|3[0-1])-0[1-9]|1[0-2])-([1-9][0-9]{3})'
x=re.findall(date_regex,text)

print(x)

['24-05-2022', '25-03-2023']

import re
text="24-05-2022 gopika 0-00-2000 34-4-2022 25-03-2023"
date_regex = "(0[1-9]|1[2][0-9]|3[0-1])-0[1-9]|1[0-2])-([1-9][0-9]{3})"
x=re.findall(date_regex,text)

print(x)

[('24', '05', '2022'), ('25', '03', '2023')]

import re
text="24-05-2022 gopika 0-00-2000 34-4-2022 25-03-2023"
date_regex = r"(0[1-9]|1[2][0-9]|3[0-1])-0[1-9]|1[0-2])-([1-9][0-9]{3})"
x=re.findall(date_regex,text)

print(x)

[('24', '05', '2022'), ('25', '03', '2023')]

#linear search
list=[45,56,78,63,2,5,4,6]
x=float(input())

for i in range(0,len(list)):
    if list[i]==x:
        print("the value is present in the",i)
        break
    else:
        print("the value is not present",i)

8
the value is not present 7

#linear search
a=[45,56,78,63,2,5,4,6]
x=float(input())
if x in a:
    print("the value present in the ",a)
else:
    print("the value is not present in the ",a)

```

```
45
-----
AttributeError                                 Traceback (most recent call last)
<ipython-input-22-23cd95259e2b> in <module>
      3 x=float(input())
      4 if x in a:
----> 5   print("the value present in the ",a.input(x))
      6 else:
      7   print("the value is not present in the ",a)

AttributeError: 'list' object has no attribute 'input'
```

SEARCH STACK OVERFLOW

#BINARY SEARCH

```
b=[45,56,78,63,2,5,4,6,8]
x=float(input())
L=0
H=len(b)-1
def binary(b,x,L,H):
    for i in range(0,len(b)):
        while(L<=H):
            b[i]==b[L+H//2]
            return i
        if b[i]==x:
            return i
        if x>=b[i]:
            L=x+1
        else:
            H= x-1
    return -1

result=binary(b,x,L,H)
print(result, "key element")
```

63
0 key element

#BINARY SEARCH

```
b=[45,56,78,90,95,96,100]
x=float(input())
L=0
H=len(b)-1
def binary(b,x,L,H):
    #mid=L+H//2
    # for i in range(0,len(b)):
    while(L<=H):
        mid=L+(H-L)//2
        if b[mid]==x:
            return mid
        elif b[mid]<x:
            L=mid+1
        elif b[mid]>x:
            H=mid-1
    return -1

result=binary(b,x,L,H)
if result== -1:
    print("no key element")
else:
    print(result,"key element")
```

5
no key element

```
#bubble sort
a=[]
num=int(input("enter the size of the list"))
print("enter the values")
for k in range(num):
    a.append(int(input()))
print("unsorted list:",a)
for j in range(len(a)-1):
    for i in range(len(a)-1):
        if a[i]>a[i+1]:
            a[i],a[i+1]=a[i+1],a[i]
print("sorted list:",a)
```

```
enter the size of the list3
enter the values
4
0
6
unsorted list [4, 0, 6]
sorted list [0, 4, 6]
```

```
#insertion sort
```

```
q=[]
num=int(input("enter the size of the list"))
print("enter the values")
for k in range(num):
    q.append(int(input()))
print("unsorted list:",q)
for j in range(len(q)-1):
    for i in range(len(q)-1):
        if q[i]>q[i+1]:
            q[i],q[i+1]=q[i+1],q[i]
i=i+1
print("sorted list:",q)
```

```
enter the size of the list5
enter the values
2
3
0
7
5
unsorted list: [2, 3, 0, 7, 5]
sorted list: [0, 2, 3, 5, 7]
```

```
#quick sort
r=[]
num=int(input("enter the size of the list"))
print("enter the values")
for k in range(num):
    r.append(int(input()))
print("unsorted list:",r)
def quick(a,i,j):
    piv=a[i]
    f=i+1
    while True:
        while(f<=j and piv>=a[f]):
            f=f+1
        while(f<=j and piv<=a[j]):
            j=j-1
        if f==j:
            a[f],a[j]=a[j],a[f]
        else:
            break
        a[j],a[i]=a[i],a[j]
    return j
def op (a,i,j):
    if i>j:
        return
    p=quick(a,i,j)
    op(a,i,p-1)
    op(a,p+1,j)
```

```
i=0
j=len(a)-1
op(a,i,j)
print(a)
```

```
enter the size of the list5
enter the values
3
4
0
8
6
unsorted list: [3, 4, 0, 8, 6]
```

```
a=[]
num=int(input("enter the size of the list"))
print("enter the values")
for k in range(num):
    a.append(int(input()))
print("unsorted list:",a)
def quick(a,i,j):
    piv=a[i]
    f=i+1
    while True:
        while(f<=j and piv>=a[f]):
            f=f+1
        while(f<=j and piv<=a[j]):
            j=j-1
        if f<=j:
            a[f],a[j]=a[j],a[f]
        else:
            break
    a[j],a[i]=a[i],a[j]
    return j
def op (a,i,j):
    if i>=j:
        return
    p=quick(a,i,j)
    op(a,i,p-1)
    op(a,p+1,j)
i=0
j=len(a)-1
op(a,i,j)
print(a,"sorted list")
```

```
enter the size of the list5
enter the values
3
0
10
8
14
unsorted list: [3, 0, 10, 8, 14]
[0, 3, 8, 10, 14] sorted list
```

#Question: Create a list of variables from the input format below using Regular Expression
#Sample Input:

```
import re
text='''
Best Company
24 Oct 2021 - Anonymous Employee
Recommend
CEO Approval
Business Outlook
Pros
Provides work life balance
Respects employees concern
Health Insurance, pension scheme
```

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Having good Work life balance
Cons
Less scope of work and opportunity
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System engineer
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Business Outlook
Pros
Good environment, a lot to learn if you're receptive
Cons
Sometimes there are stretching hours of work in TCS internal project
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Exposure and Respect
10 Dec 2021 - ASE Trainee in Bangalore
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Business Outlook
Pros
The kind of exposure you get is unbelievable. Also with TCS, you get associated with one of the most respectful industry groups, the Tata Gro
Cons
Career growth might be slow if you don't update yourself.
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Business Outlook
Pros
1. Better Work life balance 2. Job Security 3. Lesser Work pressure
Cons
1. Decent Pay. 2. Lesser appreciation of work.
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Report'''
procon_regex = r"\b(pros|cons)\b"
procon_list=re.split(procon_regex,text)
for elements in procon_list:
 if elements.upper().startswith("Pros"):
 Pros.append(element)
 elif elements.upper().startswith("Cons"):
 Cons.append(elements)
print(elements)

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Cons

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#Question: Create a list of variables from the input format below using Regular Expression

#Sample Input:

```
import re
text='''Best Company24 Oct 2021 - Anonymous Employee
```

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Pros

Provides work life balance

Respects employees concern

Health Insurance, pension scheme

Cons

No cons so far noticed

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Pros

It's very good working environment and will explore to different regions of people different regions can travel and work.

Cons

Nothing to address as it is giving everything

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Pros
Very good IT company to start your career.
Cons
I have nothing to say about it.
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Very less salary for freshers
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Business Outlook
Pros
Flexible work hours Work from home No much work load
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Nothing for now. All good
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```
#procon_regex = r"\b(Pros|Cons)\b"
procon_list=re.findall(procon_regex,text,flags=re.IGNORECASE)
```

```
for procon in procon_list:
    print(procon[0]+":"+procon[1])

File "<ipython-input-28-f448b0ce3acb>", line 150
    procon_regex = r"\b(Pros|Cons)\b"(.*?)[.!?]"
                                         ^
SyntaxError: invalid syntax
```

SEARCH STACK OVERFLOW

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Work life balance
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TCS Digital
 10 Dec 2021 - Systems Engineer in Gurgaon, Haryana
 Recommend
 CEO Approval
 Business Outlook
 Pros
 1. Better Work life balance 2. Job Security 3. Lesser Work pressure
 Cons
 1. Decent Pay. 2. Lesser appreciation of work.
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 import re

```
# Define a regular expression pattern to match pros and cons
pattern = r'(pro|con|advantage|disadvantage):\s(.+\''
Pros_and_Cons = re.findall(pattern, text)
print(Pros_and_Cons)

# Iterate over the list of tuples and extract the pros and cons as needed
for item in pros_and_cons:
    if item[0] == 'Pro':
        print('Pro:', item[1])
    elif item[0] == 'Con':
        print('Con:', item[1])
```

DATE: ['24 Oct 2021', '10 Dec 2021', '10 Dec 2021', '10 Dec 2021', '11 Dec 2021', '11 Dec 2021', '10 Dec 2021', '10 Dec 2021']
Pros: ['Provides work life balance', "It's very good working environment and will explore to different regions of people different regic
Cons: ['No cons so far noticed', 'Nothing to address as it is giving everything', 'I have nothing to say about it.', 'Very less salary f

NAME: [REDACTED] . NAME PROS_AND_CONS IS NOT DEFINED

text='''Best Company24 Oct 2021 - Anonymous Employee

Recommend

CEO Approval

Business Outlook

Pros

Provides work life balance

Respects employees concern

Health Insurance, pension scheme

Cons

No cons so far noticed

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Report

Work life balance

10 Dec 2021 - Assistant Consultant At TCS in Bangalore

Recommend

CEO Approval

Business Outlook

Pros

It's very good working environment and will explore to different regions of people different regions can travel and work.

Cons

Nothing to address as it is giving everything

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Report

Good company

10 Dec 2021 - Systems Engineer

Recommend

CEO Approval

Business Outlook

Pros

Very good IT company to start your career.

Cons

I have nothing to say about it.

Be the first to find this review helpful

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Report

Less salary, good learning

10 Dec 2021 - Anonymous Employee

Recommend

CEO Approval

Business Outlook

Pros

They provide a great learning experience

Cons

Very less salary for freshers

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Report

Great place to work

10 Dec 2021 - Software Engineer

Recommend

CEO Approval

Business Outlook

Pros

Flexible work hours Work from home No much work load

Cons
Nothing for now. All good
Continue reading
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Great Job Security
11 Dec 2021 - Anonymous Employee
Recommend
CEO Approval
Business Outlook
Pros
Great for someone who wants job security
Cons
Hike is very less when compared to other
Be the first to find this review helpful
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Report

Working ex6
11 Dec 2021 - Software Developer in Calcutta
Recommend
CEO Approval
Business Outlook
Pros
Having good Work life balance
Cons
Less scope of work and opportunity
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Report

System engineer
10 Dec 2021 - Systems Engineer in Mumbai
Recommend
CEO Approval
Business Outlook
Pros
Good environment, a lot to learn if you're receptive
Cons
Sometimes there are stretching hours of work in TCS internal project
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Helpful
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Report

Exposure and Respect
10 Dec 2021 - ASE Trainee in Bangalore
Recommend
CEO Approval
Business Outlook
Pros
The kind of exposure you get is unbelievable. Also with TCS, you get associated with one of the most respectful industry groups, the Tata Gro
Cons
Career growth might be slow if you don't update yourself.
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Pros=[]
Cons=[]
for element in procon_list:
    if element.upper().startswith("Pros"):
        Pros.append(element)
    elif element.upper().startswith("Cons"):
        Cons.append(element)
print("Pros:",Pros)
print("Cons:",Cons)

```

Pros: []
Cons: []

```

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text='''
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Report'''
Pros=[]
Cons=[]

```
import re
text="where is 4 th and 5 th person?"
o=re.findall("[1-9]",text)
print(o)

['4', '5']

import re

# Match a string that contains a backspace character
regex = r'hello\bworld'
string = 'hello\bworld'

if re.match(regex, string):
    print('Match found')
else:
    print('Match not found')

Match not found
```

