

1.## sum of list

```
lst=[11,22,33,44,55]
```

```
a=sum(lst)
```

```
print(a)
```

2.### creat a tuple

```
tup=(10,20,30,40,50,30,40,50,60)
```

```
print(tup[3:5])
```

3.##

```
set1={11,21,22,13,15,16}
```

```
set2={10,21,4,15,7,4,}
```

```
a=set1&set2
```

```
print(a)
```

4.#####

```
num=[12,13,23,43,45,65]
```

```
a=max(num)
```

```
b=min(num)
```

```
print(a)
```

```
print(b)
```

5.#####

```
c=0
```

```
for i in range(10+1):
```

```
    print(i)
```

6.#####

```
i=0
```

```
while i<=20:
```

```
    if i%2==0:
```

```
        print(i)
```

```
    i=i+1
```

7.

```
num=[1,2,3,5,4,3,6,7,2,1]
```

```
a=list(set(num))
```

```
print(a)
```

8.#### remove duplicates[]

```
a=["banana","apple","cherry",]
```

```
p=sorted(a)
```

```
print(p)
```

```
print(a)
```

9.#####

```
number=[1,2,3,4,5]
```

```
lst=(number*2)
```

```
for x in number:
```

```
    print(lst)
```

10.# sorted form

```
x=["banana","apple","cherry","kiwi"]
```

```
a=sorted(x)
```

```
print(a)
```

```
print(type(a))
```

11.### multiply elements multiplied by 2:

```
num=[1,4,70,3,2]
```

```
for i in num:
```

```
    print(i*2)
```

12.##stores the result in a dictionary.

```
num=[1,2,4,70,43,4,4,2,4]
```

```
dict={}
```

```
for i in num:
```

```
    if i in dict:
```

```
        dict[i]+=1
```

```
    else:
```

```
        dict[i]=1
```

```
print(dict)
```

13.#dictionary with squares of numbers from 1 to 5:

```
squ={}
```

```
for i in range(1,6):
```

```
    squ[i]=i**2
```

```
print(squ)
```

14.##filter out the even numbers:

```
num=[2,3,45,32,8,9,5,4,24]
```

```
for i in num:
```

```
    if i%2==0:
```

```
        print(i)
```

15.## input and returns the number of vowels in it.

```
s=input("Enter a string:")
```

```
v='aeiou'
```

```
for i in s:
```

```
    if i in v.lower():
```

```
        print(i)
```

16.## tuple with three elements and unpack:

```
tup=("apple","banana","cherry")
```

```
a,b,c=tup
```

```
print(a)
```

```
print(b)
```

```
print(c)
```

```
print(type(tup))
```

17.## use of split():

```
s=input("Enter a sentence:")
```

```
w=s.split()
```

```
s=len(w)
```

```
print(s)
```

18.## count function ka use karke:

```
s=input("Enter a sentence:")
```

```
x=s.count("")
```

```
r=len(s)
```

```
print(r)
```

18.## max use of list:

```
name=["adam","julie","Tripathi"]  
a=max(name)  
print(a)
```

19.## set five prime numbers.

```
a={1,3,5,7,9,}  
print(a)  
print(type(a))
```

20.## find the shortest string.

```
s=["apple","cat","bat","banana"]  
p=min(s,key=len)  
print(p)  
print(type(p))
```

21.## prime or not prime Number:

```
a=int(input("Enter a numer:"))  
if a>1:  
    for i in range(2,a):  
        if (a%i)==0:  
            print("prime number")  
            break  
else:  
    print("Not a prime number")
```

22.## Create a dictionary 1 to 5 value as their square:

```
d={}  
for i in range(1,6):  
    d[i]=i**2  
print(d)
```

24.## commen list items:

```
lst1=[12,2,3,4,5,6]  
lst2=[1,1,5,43,2,21]  
commen=[]
```

```
for i in lst1:
    if i in lst2:
        commen.append(i)
    print(commen)
```

25### FizzBuzz-style program:

```
for i in range(1,51):
    if i%3==0 and i%5==0:
        print("FizzBuzz")
    elif i%3==0:
        print("Fizz")
    elif i%5==0:
        print("Buzz")
    else:
        print(i)
```

26.### print all prime numbers between 1 and 100:

```
for num in range(1,101):
    if num>1:
        for i in range(2,num):
            if (num%i)==0:
                break
        else:
            print(num)
```