

```
l = [i for i in range(10,21)]
print(l)
```

```
[10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]
```

```
l = [i for i in range(10,21) if i % 2 == 0]
print(l)
```

```
[10, 12, 14, 16, 18, 20]
```

```
[[1,3,5,7,9],[2,4,6,8,10]]
```

```
l = [[],[ ]]
```

```
for i in range(1,11):
```

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

```
        l[0].append(i)
```

```
    else:
```

```
        l[1].append(i)
```

```
else:
```

```
    print(l)
```

```
[[1, 3, 5, 7, 9], [2, 4, 6, 8, 10]]
```

```
l=[[j for j in range(1,11) if j % 2 !=0 ] if i % 2 == 0 else [k
# l=[[j for j in range(1,11) if j % 2 !=0 ]
# if i % 2 == 0 else [k for k in range(1,11)
# if k%2==0]for i in range(2)]
print(l)
```

```
[[1, 3, 5, 7, 9], [2, 4, 6, 8, 10]]
```

```
s = 'goodafternoon'
```

```
l = [i for i in s]
```

```
print(l)
```

```
['g', 'o', 'o', 'd', 'a', 'f', 't', 'e', 'r', 'n', 'o', 'o', 'n']
```

```
s = 'goodafternoon'
```

```
s1 = set()
```

```
for i in s:
```

```
    s1.add(i)
```

```
else:
```

```
    print(s1)
    {'f', 'n', 'd', 'g', 't', 'r', 'o', 'e', 'a'}
```

```
s = 'goodafternoon'
```

```
s1={i for i in s}
```

```
print(s1)
```

```
    {'f', 'n', 'd', 'g', 't', 'r', 'o', 'e', 'a'}
```

```
s1={i for i in input('Please enter name : ')}
```

```
print(s1)
```

```
    Please enter name : jagadeesh
```

```
    {'j', 'd', 'g', 'h', 's', 'e', 'a'}
```

```
s1={i for i in input('Please enter name : ') if i not in 'aeiou'}
```

```
print(s1)
```

```
    Please enter name : kiran
```

```
    {'n', 'k', 'r'}
```

```
s1={(i,) for i in input('please enter name : ') if i not in 'ae'}
```

```
print(s1)
```

```
    please enter name : kiran
```

```
    {('n',), ('k',), ('r',)}
```

```
{('n','N'),('k','K'),('r','R')}
```

```
s1={(i,i.upper()) for i in input('Please enter name : ') if i not in 'aeiou'}
```

```
print(s1)
```

```
    Please enter name : jagadeesh
```

```
    {('h', 'H'), ('j', 'J'), ('g', 'G'), ('d', 'D'), ('s', 'S')}
```

```
s={(i, i.lower() if i.isupper() else i.upper()) for i in input('Please enter name : ') if i not in 'aeiouAEIO'}
```

```
# s={(i, i.lower() if i.isupper() else i.upper()) for i in input('Please enter name : ') if i not in 'aeiouAEIO'}
```

```
# for i in input('Please enter name : ') if i not in 'aeiouAEIO'}
```

```
print(s)
```

```
    Please enter name : jagaDEESH
```

```
    {('h', 'H'), ('j', 'J'), ('D', 'd'), ('g', 'G'), ('S', 's')}
```

```
d={i:i**2 for i in range(1,11)}
```

```
print(d)
```

```
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}
```

```
[[0],[0,1],[0,1,2],[0,1,2,3]]
l=[i for i in range(1,5)]
print(l)
```

```
[[1], [2], [3], [4]]
```

```
[[0],[0,1],[0,1,2],[0,1,2,3]]
l=[[j for j in range(i)] for i in range(1,5)]
print(l)
```

```
[[0], [0, 1], [0, 1, 2], [0, 1, 2, 3]]
```

```
d = {
    1:[0],
    2:[0,1],
    3:[0,1,2],
    4:[0,1,2,3]
}
for key,value in d.items():
    print(key,value,sep=' : ')

1 : [0]
2 : [0, 1]
3 : [0, 1, 2]
4 : [0, 1, 2, 3]
```

```
d={i:[j for j in range(i)] for i in range(1,5)}
for key,value in d.items():
    print(key,value,sep=' : ')

1 : [0]
2 : [0, 1]
3 : [0, 1, 2]
4 : [0, 1, 2, 3]
```

```
l=['jagadeesh','deepak','kiran','venkat']
{
    'jagadeesh':{'j','a','g','d','e','s','h'},
    'deepak' : {'d','e','p','a','k'},
    'kiran' : {'k','i','r','a','n'},
    'venkat' : {'v','e','n','k','a','t'}
```

```
}
'' ..
```

```
l=['jagadeesh','deepak','kiran','venkat']
d={name:{i for i in name} for name in l}
for key,value in d.items():
    print(key,value,sep=' : ')
```

```
jagadeesh : {'j', 'd', 'g', 'h', 's', 'e', 'a'}
deepak : {'d', 'k', 'p', 'e', 'a'}
kiran : {'i', 'n', 'k', 'r', 'a'}
venkat : {'n', 'k', 't', 'v', 'e', 'a'}
```

task 1

```
l=['jagadeesh','deepak','kiran','venkat']
d={
    'j':1,
    'a':5,
    'g':1,
    'd':2,
    'e':5,
    's':1,
    'h':1,
    'p':1,
    'k':3,
    'i':1,
    'r':1,
    'v':1,
    'n':1,
    't':1
}
```

task 2

```
num = 9390018934
```

task 3

```
l=[1,2,[4,5,6],[7,8,9]]
l = [1,2,3,4,5,6,7,8,9]
```

task 4

```
l=[1,2,[4,5,6],[7,8,9]]
l = [1,2,456,789]
```

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✓ 0s completed at 2:12 PM

