

```
In [10]: def contact_search(txt,p):
          ans=[]
          for k,v in p.items():
              if txt in k:
                  ans.append(v)
          return ans
phone={'윤승식':'010-7300-0645','홍윤기':'010-3333-4444','김효륜':'010-2222-2233'}
name=input("이름을 넣으세요")
contact_search(name,phone)
```

이름을 넣으세요윤

Out[10]: ['010-7300-0645', '010-3333-4444']

```
In [15]: import random
characters="adklfjaljdkfjklvmsjdf lasvjouosdajlfkjlsadfjlsdf ljsdaf lABCEJLFJASDVWERLJLWER"
def rand_str(n, character=characters):
    res="".join(random.choices(character,k=n))
    return res
rand_str(3)
```

Out[15]: 'IJR'

```
In [21]: def encrypt(string, n):
          res=""
          for i in string:
              res+=i
              res+=rand_str(n)
          return res
encrypt("car",3)

def decrypt(string, n):
    res=""
    for i in range(0,len(string), n+1):
        res+=string[i]
    return res
message=input("암호할 단어 입력")
num=int(input("숫자입력"))
msg=encrypt(message,num)
print(msg)
msg1=decrypt(msg,num)
print(msg1)
```

암호할 단어 입력hong

숫자입력3

halsosjfnjdagJdv

hong

```
In [29]: def check(txt):
          for i in txt:
              first=input("%s:"%i)
              if first[0]!=i:
                  return False
          return True

          msg=input("제시어를 주세요")
          check(msg)
```

제시어를 주세요홍준기
홍:홍준기는
준:준수와 외모와
기:기똥찬 머리를 가지고 있어요

Out[29]: True

```
In [39]: max=30
          hour=6

          dist=float(input("이동거리"))
          wang=input("왕복여부(Y/N)")
          if wang.upper()=="Y":
              dist=dist*2

          if dist>max:
              print("거리초과 갈수없음")
          else:
              c_hour=dist*hour/max
              print(c_hour)
```

이동거리20
왕복여부(Y/N)y
거리초과 갈수없음

```
In [40]: print(range(10)) # 레인지는 제너레이터
          for i in range(10):
              print(i)
```

range(0, 10)
0
1
2
3
4
5
6
7
8
9

```
In [42]: a=[[1,2,3,4,5]]  
         print(a)  
         print(*a) # unpacking
```

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

```
In [45]: a=[1,2,3]  
         b=[4,5,6]  
         k=list(zip(a,b)) # generator  
         print(k)  
         print(*k)
```

```
[(1, 4), (2, 5), (3, 6)]  
(1, 4) (2, 5) (3, 6)
```

```
In [ ]:
```