In [1]:
```
d = {}
```

In [2]:
```
type(d)
```

Out[2]:
```
dict
```

In [3]:
```
d1 = {'key' : "pooja"}
```

In [4]:
```
d1
```

Out[4]:
```
{'key': 'pooja'}
```

In [6]:
```
d2 = {'name' : "pooja" , 'email' : "pksingh@gmail.com" ,'number' : "145826"}
```

In [7]:
```
d2
```

Out[7]:
```
{'name': 'pooja', 'email': 'pksingh@gmail.com', 'number': '145826'}
```

In [10]:
```
d3 = {1256 : "pooja" , '-www' : "singh" , True : 123}
```

In [11]:
```
d3
```

Out[11]:
```
{1256: 'pooja', '-www': 'singh', True: 123}
```

In [12]:
```
d3[1256]
```

Out[12]:
```
'pooja'
```

In [14]:
```
d3[True]
```

Out[14]:
```
123
```

In [19]:
```
d3[1]
```

Out[19]:
```
123
```

In [17]:
```
d4 = {'name' : "poo" , 'email' : "_@gmail.com" ,'name' : "pooja"}
```

In [20]:
```
d4['name']
```

Out[20]:
```
'pooja'
```

In [22]:
```
d5 = {'company' : "pwskills" , 'course' : ["data science" , "AI" , "machine learnin
```

In [23]:
```
d5
```

Out[23]:
```
{'company': 'pwskills', 'course': ['data science', 'AI', 'machine learning']}
```

In [25]:
```
d5['course']
```

Out[25]:
```
['data science', 'AI', 'machine learning']
```

In [26]:
```
d5['course'][2]
```

Out[26]:
```
'machine learning'
```

In [11]:
```
d6 = {"number" : [24,25,30,12,23] , "assignment" : (1,2,3,4,5,6) , "launch_date" :
```

In [12]:
```
d6
```

Out[12]:
```
{'number': [24, 25, 30, 12, 23],
 'assignment': (1, 2, 3, 4, 5, 6),
 'launch_date': {12, 14, 28},
 'class_time': {'web_dev': 8,
  'data_science': 9,
  'java with dsa and system design': 7}}
```

In [16]:
```
d6['class_time']['java with dsa and system design']
```

Out[16]:
```
7
```

In [17]:
```
d6['learning_fellows'] = ['pooja' , 'arpoo']
```

In [18]:
```
d6
```

Out[18]:
```
{'number': [24, 25, 30, 12, 23],
 'assignment': (1, 2, 3, 4, 5, 6),
 'launch_date': {12, 14, 28},
 'class_time': {'web_dev': 8,
  'data_science': 9,
  'java with dsa and system design': 7},
 'learning_fellows': ['pooja', 'arpoo']}
```

In [19]:
```
del d6['learning_fellows']
```

In [20]:
```
d6
```

Out[20]:
```
{'number': [24, 25, 30, 12, 23],
 'assignment': (1, 2, 3, 4, 5, 6),
 'launch_date': {12, 14, 28},
 'class_time': {'web_dev': 8,
  'data_science': 9,
  'java with dsa and system design': 7}}
```

In [24]:
```
list(d6.keys())
```

Out[24]:
```
['number', 'assignment', 'launch_date', 'class_time']
```

In [27]:
```
list(d6.values())
```

Out[27]:
```
[[24, 25, 30, 12, 23],
 (1, 2, 3, 4, 5, 6),
 {12, 14, 28},
 {'web_dev': 8, 'data_science': 9, 'java with dsa and system design': 7}]
```

In [28]:
```
d6.items()
```

Out[28]:
```
dict_items([('number', [24, 25, 30, 12, 23]), ('assignment', (1, 2, 3, 4, 5, 6)),
('launch_date', {28, 12, 14}), ('class_time', {'web_dev': 8, 'data_science': 9, 'j
ava with dsa and system design': 7})])
```

In [29]:
```
list(d6.items())
```

Out[29]:
```
[('number', [24, 25, 30, 12, 23]),
 ('assignment', (1, 2, 3, 4, 5, 6)),
 ('launch_date', {12, 14, 28}),
 ('class_time',
  {'web_dev': 8, 'data_science': 9, 'java with dsa and system design': 7})]
```

In [30]:
```
d6.pop('assignment')
```

Out[30]:
```
(1, 2, 3, 4, 5, 6)
```

In [31]:
```
d6
```

Out[31]:
```
{'number': [24, 25, 30, 12, 23],
 'launch_date': {12, 14, 28},
 'class_time': {'web_dev': 8,
  'data_science': 9,
  'java with dsa and system design': 7}}
```

In [9]:
```
marks = int(input("enter your marks"))
if marks >= 80:
    print("you will be a part of A0 batch")
elif marks >= 60 and marks < 80:
    print(" you will be a part of A1 batch")
elif marks >= 40 and marks < 60:
    print(" you will be a part of A2 batch")
else:
    print(" you will be a part of A3 batch")
```

```
 you will be a part of A2 batch
```

In [2]:
```
10 >=80
```

Out[2]:
```
False
```

In [11]:
```
marks = int(input("enter your marks"))
```

In [12]:
```
marks
```

Out[12]:
```
20
```

In [13]:
```
type(marks)
```

Out[13]:
```
int
```

In [14]:
```
marks = input("enter your marks")
```

In [15]:
```
marks
```

Out[15]:
```
'45'
```

In [16]:
```
marks = int(input("enter your marks"))
if marks >= 80:
    print("you will be a part of A0 batch")
elif marks >= 60 and marks < 80:
    print(" you will be a part of A1 batch")
elif marks >= 40 and marks < 60:
    print(" you will be a part of A2 batch")
else:
    print(" you will be a part of A3 batch")
```

```
you will be a part of A0 batch
```

In [20]:
```
price = int(input("enter price"))
if price > 1000:
    print("i will not purchase")
else:
    print("i will purchase")
```

```
i will purchase
```

In [22]:
```
price = int(input("enter price"))
if price > 1000:
    print("i will not purchase")
    if price > 5000:
        print(" this is too much")
    elif price > 2000:
        print("its ok")
    else:
        print("not interested")
```

```
i will not purchase
not interested
```

In [23]:
```
l = [1,2,3,4,5,6,7,8]
```

In [26]:
```
l1 = []
for i in l:
    print(i+1)
    l1.append(i+1)
l1
```

```
2
3
4
5
6
7
8
9
```

Out[26]: [2, 3, 4, 5, 6, 7, 8, 9]

In [27]:
```
l
```

Out[27]: [1, 2, 3, 4, 5, 6, 7, 8]

In [28]:
```
l = ["pooja" , "singh" , "arpoo"]
```

In [29]:
```
l1 = []
for i in l:
    print(i)
    l1.append(i.upper())
```

```
pooja
singh
arpoo
```

In [30]:
```
l1
```

Out[30]: ['POOJA', 'SINGH', 'ARPOO']

In [31]:
```
l = [12,5,63.25,"pooja", "singh", 12.3]
```

In [33]:
```
l1_num = []
l2_str = []
for i in l:
    if type(i) == int or type(i) == float:
        l1_num.append(i)
    else:
        l2_str.append(i)
```

In [34]:
```
l1_num
```

Out[34]: [12, 5, 63.25, 12.3]

In [35]:
```
l2_str
```

Out[35]: ['pooja', 'singh']

In [ ]: