In [11]:
```
s = {'R','u','p','a','r','e','l'}
print(s)
s.add('Z')
print(s)
s.discard('t')
print(s)
#s.remove('t') error generate
print(s)
s.pop()
print(s)
s.clear()
print(s)
s1 = s.copy()
print(s1)
```

```
{'R', 'l', 'e', 'u', 'a', 'p', 'r'}
{'R', 'l', 'e', 'u', 'a', 'p', 'r', 'Z'}
{'R', 'l', 'e', 'u', 'a', 'p', 'r', 'Z'}
{'R', 'l', 'e', 'u', 'a', 'p', 'r', 'Z'}
{'l', 'e', 'u', 'a', 'p', 'r', 'Z'}
set()
set()
```

In [3]:
```
#dictionary
d1 = {"Name":"Ruparel","City":"Junagadh","Year":2023}
print(d1)
print(d1["Name"])
```

```
{'Name': 'Ruparel', 'City': 'Junagadh', 'Year': 2023}
Ruparel
```

In [29]:
```
#dictionary
d1 = {
    "Name":"Ruparel",
    "City":"Junagadh",
    "Year":2023,
    "Subject":["Java","Python","DAA","RM"]
    }
print(d1)
print(d1["Subject"])
print(d1.get("Name"))
print(d1.items())
print(d1.values())
print(d1.keys())

d1.pop("City")
print(d1)
d1.popitem()
print(d1)

d1.update({"City":"Junagadh"})
print(d1)

for i in d1:
    print(i)
for i in d1.keys():
    print(i)
for i in d1.values():
    print(i)
for i in d1.items():
    print(i)

del d1["Year"]
print(d1)
print(len(d1))
d2 = d1.copy()
print(d1)

d2.clear()
print(d2)

if "Name" in d1:
    print("Yes,Key is Found")
else:
    print("No, Key is Not Found")

if "Name" not in d1:
    print("Yes,Key is Found")
else:
    print("No, Key is Not Found")
```

```
{'Name': 'Ruparel', 'City': 'Junagadh', 'Year': 2023, 'Subject': ['Java',
'Python', 'DAA', 'RM']}
['Java', 'Python', 'DAA', 'RM']
Ruparel
dict_items([('Name', 'Ruparel'), ('City', 'Junagadh'), ('Year', 2023), ('S
ubject', ['Java', 'Python', 'DAA', 'RM'])])
dict_values(['Ruparel', 'Junagadh', 2023, ['Java', 'Python', 'DAA', 'R
M']])
dict_keys(['Name', 'City', 'Year', 'Subject'])
{'Name': 'Ruparel', 'Year': 2023, 'Subject': ['Java', 'Python', 'DAA', 'R
M']}
{'Name': 'Ruparel', 'Year': 2023}
{'Name': 'Ruparel', 'Year': 2023, 'City': 'Junagadh'}
Name
Year
City
Name
Year
City
Ruparel
2023
Junagadh
('Name', 'Ruparel')
('Year', 2023)
('City', 'Junagadh')
{'Name': 'Ruparel', 'City': 'Junagadh'}
2
{'Name': 'Ruparel', 'City': 'Junagadh'}
{}
Yes,Key is Found
No, Key is Not Found
```

In [31]:
```
#set array
N = 5
arr = [0 for i in range(N)]
print(arr)

r,c = (5,5)
a = [[2]*c]*r
print(a)
```

```
[0, 0, 0, 0, 0]
[[2, 2, 2, 2, 2], [2, 2, 2, 2, 2], [2, 2, 2, 2, 2], [2, 2, 2, 2, 2], [2,
2, 2, 2, 2]]
```

In [ ]:
```

```