In [10]:

product={

1001 : {'name' : 'Keyboard', 'price' : 350, 'quantity' : 10},

1002 : {'name' : 'Mouse', 'price' : 150, 'quantity' : 20},

1003 : {'name' : 'Monitor', 'price' : 5000, 'quantity' : 10},

1004 : {'name' : 'CPU', 'price' : 10000, 'quantity' : 15}

}

In [11]:

product

Out[11]:

{1001: {'name': 'Keyboard', 'price': 350, 'quantity': 10},

1002: {'name': 'Mouse', 'price': 150, 'quantity': 20},

1003: {'name': 'Monitor', 'price': 5000, 'quantity': 10},

1004: {'name': 'CPU', 'price': 10000, 'quantity': 15}}

# Writing In json File

In [12]:

**import** **json**

In [13]:

js = json.dumps(product) *#create json formatted content i.e. TXT*

In [14]:

js *#str type*

Out[14]:

'{"1001": {"name": "Keyboard", "price": 350, "quantity": 10}, "1002": {"name": "Mouse", "price": 150, "quantity": 20}, "1003": {"name": "Monitor", "price": 5000, "quantity": 10}, "1004": {"name": "CPU", "price": 10000, "quantity": 15}}'

In [15]:

fd = open("record.json", 'w' )

fd.write(js)

fd.close()

# Read Data from JSON

In [16]:

fd = open("record.json",'r')

txt = fd.read()

fd.close()

In [17]:

record = json.loads(txt)

In [18]:

record

Out[18]:

{'1001': {'name': 'Keyboard', 'price': 350, 'quantity': 10},

'1002': {'name': 'Mouse', 'price': 150, 'quantity': 20},

'1003': {'name': 'Monitor', 'price': 5000, 'quantity': 10},

'1004': {'name': 'CPU', 'price': 10000, 'quantity': 15}}

In [19]:

len(record)

Out[19]:

4

# ADD NEW ITEM INTO INVENTORY

In [61]:

prod\_id = '100'+str(len(record)+1)

prod\_name = str(input("Enter Product Name:"))

prod\_price = int(input("Enter Product Price:"))

prod\_quan = int(input("Enter Product Quantity:"))

record[prod\_id] = {'name': prod\_name, 'price': prod\_price, 'quantity': prod\_quan}

js = json.dumps(record)

fd = open("record.json","w")

fd.write(js)

fd.close()

Enter Product Name:Mobile

Enter Product Price:2000

Enter Product Quantity:23

In [62]:

fd = open("record.json","r")

txt = fd.read()

fd.close()

In [63]:

record = json.loads(txt) *#Convert json (str) into dictionary*

In [64]:

record

Out[64]:

{'1001': {'name': 'Keyboard', 'price': 350, 'quantity': 10},

'1002': {'name': 'Mouse', 'price': 150, 'quantity': 20},

'1003': {'name': 'Monitor', 'price': 5000, 'quantity': 10},

'1004': {'name': 'CPU', 'price': 10000, 'quantity': 15},

'1005': {'name': 'Sound', 'price': 2000, 'quantity': 10},

'1006': {'name': 'Harddisk', 'price': 3000, 'quantity': 30},

'1007': {'name': 'RAM', 'price': 2000, 'quantity': 20},

'1008': {'name': 'Pendrive', 'price': 500, 'quantity': 30},

'1009': {'name': 'Memory card', 'price': 150, 'quantity': 30},

'10010': {'name': 'CD', 'price': 10, 'quantity': 50},

'10011': {'name': 'DVD', 'price': 200, 'quantity': 100},

'10012': {'name': 'Pen', 'price': 50, 'quantity': 100},

'10013': {'name': 'Touchpad', 'price': 4000, 'quantity': 20},

'10014': {'name': 'Graphics card', 'price': 4000, 'quantity': 20},

'10015': {'name': 'Charger', 'price': 600, 'quantity': 10},

'10016': {'name': 'Ethernet', 'price': 100, 'quantity': 50},

'10017': {'name': 'Coaxial cable', 'price': 400, 'quantity': 30},

'10018': {'name': 'fan', 'price': 500, 'quantity': 20},

'10019': {'name': 'notebook', 'price': 50, 'quantity': 50},

'10020': {'name': 'headphone', 'price': 550, 'quantity': 40},

'10021': {'name': 'earbuds', 'price': 5000, 'quantity': 40},

'10022': {'name': 'CN book', 'price': 800, 'quantity': 50},

'10023': {'name': 'Laptop', 'price': 30, 'quantity': 20},

'10024': {'name': 'Laptop', 'price': 50000, 'quantity': 40},

'10025': {'name': 'router', 'price': 3300, 'quantity': 30},

'10026': {'name': 'bluetooth', 'price': 900, 'quantity': 20},

'10027': {'name': 'switches', 'price': 5000, 'quantity': 30},

'10028': {'name': 'HUB', 'price': 3000, 'quantity': 30},

'10029': {'name': 'Phone', 'price': 20000, 'quantity': 30},

'10030': {'name': 'Mobile', 'price': 2000, 'quantity': 23}}

In [ ]: