In [22]:

```python
# create product dictionary

def create_product_database():
    products={"pen":{"company":"reynolds", "price":25},
              "pencil":{"company":"natraj","price":15},
          "notebook":{"company":"rotomac", "price":80},
           }

# print all products

def show_products():
    for key in products.keys():
        print(key,products[key])


#Add product
def add_Product():
    new_product_name=input()
    new_product_company=input()
    new_product_price=input()
    temp_dict={"company":new_product_company,"price":int(new_product_price)}

    products[new_product_name]=temp_dict

    #print(products)


#get price of product

def get_Price():
    product=input()
    for i in products:
        if i==product:
            print(products[i]["price"])
            break


# delete product

def delete_Product():
    product=input()
    for i in products:
        if i==product:
            products.pop(product)
            break

    print("After deleting product",product)
    print(products)


# calculate total price of all the products

def total_Price():
    total_price=0
```

```
        for i in products:
            total_price=total_price+ products[i]["price"]

        print("Total Price=",total_price)


    # modify price of pen set price to 50
    def modify_Price():
        product=input()
        for i in products:
            if i==product:
                new_price=input()
                products[i]['price']= int(new_price)
                break

        print("after changing price ")
        print(products)
```

In [23]: `create_product_database()`

In [24]: `show_products()`

```
pen {'company': 'reynolds', 'price': 25}
pencil {'company': 'natraj', 'price': 15}
notebook {'company': 'rotomac', 'price': 80}
drawing book {'company': 'adarsh', 'price': 100}
```

In [25]: `get_Price()`

```
pen
25
```

In [26]: `get_Price()`

```
pencil
15
```

In [28]: `add_Product()`

```
eraser
xyz
15
```

In [30]: `show_products()`

```
pen {'company': 'reynolds', 'price': 25}
pencil {'company': 'natraj', 'price': 15}
notebook {'company': 'rotomac', 'price': 80}
drawing book {'company': 'adarsh', 'price': 100}
eraser {'company': 'xyz', 'price': 15}
```

In [32]: `modify_Price()`

```
eraser
25
after changing price
{'pen': {'company': 'reynolds', 'price': 25}, 'pencil': {'company': 'natraj',
'price': 15}, 'notebook': {'company': 'rotomac', 'price': 80}, 'drawing book':
{'company': 'adarsh', 'price': 100}, 'eraser': {'company': 'xyz', 'price': 25}}
```

In [33]: `delete_Product()`

```
notebook
After deleting product notebook
{'pen': {'company': 'reynolds', 'price': 25}, 'pencil': {'company': 'natraj',
'price': 15}, 'drawing book': {'company': 'adarsh', 'price': 100}, 'eraser':
{'company': 'xyz', 'price': 25}}
```

In [35]: `total_Price()`

```
Total Price= 165
```

In [ ]: