Source Code

```
import json # importing json to preety print our dictionaries

Store = dict()  # empty dictionary store

#  <------------     FUNCTION TO ADD ITEMS INTO STORE    ------------>  #

def ins():

    # function to store all code that insert values
    def main_ins():
        if item_name in Store:
            print(f"{item_name} already exist in Store, {item_name} values will get
update")
            print() # empty line for formatting

        item_price = int(input(f'Enter the price of {item_name} in Rs\n -->  '))
        item_quan = int(input(f'Enter the quantity of {item_name}\n -->  '))
        item_comp = input(f'Enter the company name or manufacturer name of
{item_name}\n -->  ')
        print() # empty line for formatting
        print(f' --->>  "{item_name}" has been added in the Store')
        print() # empty line for formatting

        Store[item_name] = dict([('Price', item_price),('Quantity', item_quan),
('Company Name', item_comp)])

    steve_jobs = True # flag for the loop inside function

    while steve_jobs:
        item_name = input('Enter the name of item\n -->  ')
        main_ins()


        while True:
            more_or_not = input('type yes[Y] to add more items or no[N] to leave or
just type number of items you want to add\n -->  ').strip().lower()

            if more_or_not.isalpha():
                if more_or_not == 'n' or more_or_not == 'no':
                    steve_jobs = False # the main loop will terminate
                    break # the inner loop will terminate
                elif more_or_not == 'y' or more_or_not == 'yes':
                   break # the inner loop will terminate
```

```
                else:
                    print('whooopse didn\'t get it')

            elif more_or_not.isdigit():
                more_or_not = int(more_or_not)

                for i in range(1, more_or_not + 1):
                    if more_or_not == 1:
                        item_name = input('Enter the name of item\n -->  ')
                    elif i == 1:
                        item_name = input(f'Enter the name of {i}st item\n -->  ')
                    elif i == 2:
                        item_name = input(f'Enter the name of {i}nd item\n -->  ')
                    elif i == 3:
                        item_name = input(f'Enter the name of {i}rd item\n -->  ')
                    elif i > 3:
                        item_name = input(f'Enter the name of {i}th item\n -->  ')
                    main_ins()

                steve_jobs = False
                break

            else:
                print(' :(  whoopse didn\'t understand that please only type
numbers or only aplhabet')
                continue

#  <------------     FUNCTION TO UPDATE ITEMS OF STORE    ------------>  #

def update():

    # function to store all code that update

    #FLAG for store items
    global item_in_store
    item_in_store = True

    def update_all():
        if not (item_name in Store):
            item_in_store = False
            print(f"{item_name}  doesn\'t exist in the Store, {item_name} and
it\'s values will get add")
            print() # empty line for formatting

        item_price = int(input(f'Enter the price of {item_name} in Rs\n -->  '))
        item_quan = int(input(f'Enter the quantity of {item_name}\n -->  '))
```

```
        item_comp = input(f'Enter the company name or manufacturer name of
{item_name}\n -->  ')

        Store[item_name] = dict([('Price', item_price),('Quantity', item_quan),
('Company Name', item_comp)])

        print() # empty line for formatting
        if item_in_store:
            print(f' --->>  "{item_name}" has been update')
        else:
            print(f' --->>  "{item_name}" has been added')
        print() # empty line for formatting

    def update_price():
        if item_name in Store:
            item_price = int(input(f'Enter the price of {item_name} in Rs\n --
>  '))
            Store[item_name]['Price'] = item_price
            print() # empty line for formatting
            print(f' --->>  "{item_name}" price has been update')
            print() # empty line for formatting

        else:
            print(f'{item_name} doesn\'t exist in the Store. try adding it')


    def update_quantity():
        if item_name in Store:
            item_quan = int(input(f'Enter the quantity of {item_name}\n -->  '))
            Store[item_name]['Quantity'] = item_quan
            print() # empty line for formatting
            print(f' --->>  "{item_name}" quantity has been update')
            print() # empty line for formatting

        else:
            print(f'{item_name} doesn\'t exist in the Store. try adding it')

    def update_company():
        if item_name in Store:
            item_comp = input(f'Enter the company name or manufacturer name of
{item_name}\n -->  ')
            Store[item_name]['Company Name'] = item_comp
            print() # empty line for formatting
            print(f' --->>  "{item_name}" company name has been update')
            print() # empty line for formatting
```

```
        else:
            print(f'{item_name} doesn\'t exist in the Store. try adding it')

    steve_jobs = True # flag for the loop inside function

    while steve_jobs:
        item_name = input('Enter the name of item\n -->  ')

        if item_name not in Store:
            update_all()

        else:
            while True:
                what_to_update = input('what you want to update\n\t1 : for
price\n\t2 : for quantity\n\t3 : for company name\n\t4 : for all\n   --
>  ').lower().strip()

                if what_to_update == '1' or what_to_update == 'price' or
what_to_update == 'rs':
                    update_price()
                    break
                elif what_to_update == '2' or what_to_update == 'quan' or
what_to_update == 'quantity':
                    update_quantity()
                    break
                elif what_to_update == '3' or what_to_update == 'company name' or
what_to_update == 'comp name':
                    update_company()
                    break
                elif what_to_update == '4' or what_to_update == 'all':
                    update_all()
                    break
                else:
                    continue



        while True:
            more_or_not = input('type yes[Y] to update more items or no[N] to leave
or just type number of items you want to update\n -->  ').strip().lower()

            if more_or_not.isalpha():
                if more_or_not == 'n' or more_or_not == 'no':
                    steve_jobs = False # the main loop will terminate
                    break # the inner loop will terminate
                elif more_or_not == 'y' or more_or_not == 'yes':
```

```
                    break # the inner loop will terminate

                else:
                    print('whoooopse didn\'t get it')

            elif more_or_not.isdigit():
                more_or_not = int(more_or_not)

                for i in range(1, more_or_not + 1):
                    if more_or_not == 1:
                        item_name = input('Enter the name of item\n -->  ')
                    elif i == 1:
                        item_name = input(f'Enter the name of {i}st item\n -->  ')
                    elif i == 2:
                        item_name = input(f'Enter the name of {i}nd item\n -->  ')
                    elif i == 3:
                        item_name = input(f'Enter the name of {i}rd item\n -->  ')
                    elif i > 3:
                        item_name = input(f'Enter the name of {i}th item\n -->  ')

                    if item_name not in Store:
                        update_all()

                    else:
                        while True:
                            what_to_update = input('what you want to update\n\t1 :
for price\n\t2 : for quantity\n\t3 : for company name\n\t4 : for all\n   --
>  ').lower().strip()

                            if what_to_update == '1' or what_to_update == 'price'
or what_to_update == 'rs':
                                update_price()
                                break
                            elif what_to_update == '2' or what_to_update == 'quan'
or what_to_update == 'quantity':
                                update_quantity()
                                break
                            elif what_to_update == '3' or what_to_update ==
'company name' or what_to_update == 'comp name':
                                update_company()
                                break
                            elif what_to_update == '4' or what_to_update == 'all':
                                update_all()
                                break
                            else:
                                continue
```

```
                steve_jobs = False
                break

            else:
                print(' :(  whoopse didn\'t understand that please only type
numbers or only aplhabet')
                continue

#  <------------     FUNCTION TO DELETE ITEMS FROM STORE    ------------>  #

def delete():
    # if dictionary is NOT empty then this will run
    if Store:
        steve_jobs = True # flag for the loop inside function

        while steve_jobs:
            item_name = input('Enter the item name that you want to delete \n --
>  ')

            if item_name in Store:
                Store.pop(item_name)
                print(f' -->>   {item_name} no more exist in the dictionary Store')
                print() # empty line for formatting
            else:
                print(':( WHooooppppsesseee,  look like the item doesn\'t exist. Try
adding it')
                print() # empty line for formatting

            while True:
                more_or_not = input('type yes[Y] to delete more items or no[N] to
leave or just type number of items you want to delete\n -->  ').strip().lower()

                if more_or_not.isalpha():
                    if more_or_not == 'n' or more_or_not == 'no':
                        steve_jobs = False
                        break

                    elif more_or_not == 'y' or more_or_not == 'yes':
                        break

                    else:
                        print('whooopse didn\'t get it')

                elif more_or_not.isdigit():
                    more_or_not = int(more_or_not)
```

```
                    for i in range(1, more_or_not + 1):
                        if more_or_not == 1:
                            item_name = input('Enter the item name that you want to
delete \n -->  ')
                        elif i == 1:
                            item_name = input(f'Enter the {i}st item name that you
want to delete \n -->  ')
                        elif i == 2:
                            item_name = input(f'Enter the {i}nd item name that you
want to delete \n -->  ')
                        elif i == 3:
                            item_name = input(f'Enter the {i}rd item name that you
want to delete \n -->  ')
                        elif i > 3:
                            item_name = input(f'Enter the {i}th item name that you
want to delete \n -->  ')

                        if item_name in Store:
                            Store.pop(item_name)
                            print(f' -->>   {item_name} no more exist in the
dictionary Store')
                            print() # empty line for formatting
                        else:
                            print(':( WHooooppppsesseee,  look like the item
doesn\'t exist. Try adding it')
                            print() # empty line for formatting


                    steve_jobs = False
                    break

                else:
                    print(' :(  whoopse didn\'t understand that please only type
numbers or only aplhabet')
                    continue
    else:
        print('the Store has currently no items. first add items then delete')


def search():  # fuction to search for dictionary item
    # if dictionary is NOT empty then this will run
    if Store:
        steve_jobs = True # flag for the loop inside function

        while steve_jobs:
```

```
            item_name = input('Enter the name of item that you wanna search\n --
>  ')
            if item_name in Store:
                print(f' -->>    {item_name} exist in the dictionary')
                print(f'{item_name} ->  {json.dumps(Store[item_name], indent =
3)}')
                print() # empty line for formatting
            else:
                print(':( WHooooppppsesseeee,  look like the item doesn\'t exist. Try
adding it')
                print() # empty line for formatting

            while True:
                more_or_not = input('type yes[Y] to search more items or no[N] to
leave or just type number of items you want to search\n -->  ').strip().lower()

                if more_or_not.isalpha():
                    if more_or_not == 'n' or more_or_not == 'no':
                        steve_jobs = False
                        break

                    elif more_or_not == 'y' or more_or_not == 'yes':
                        break

                    else:
                        print('whooopse didn\'t get it')

                elif more_or_not.isdigit():
                    more_or_not = int(more_or_not)

                    for i in range(1, more_or_not + 1):
                        if more_or_not == 1:
                            item_name = input('Enter the item name that you want to
search \n -->  ')
                        elif i == 1:
                            item_name = input(f'Enter the {i}st item name that you
want to search \n -->  ')
                        elif i == 2:
                            item_name = input(f'Enter the {i}nd item name that you
want to search \n -->  ')
                        elif i == 3:
                            item_name = input(f'Enter the {i}rd item name that you
want to search \n -->  ')
                        elif i > 3:
                            item_name = input(f'Enter the {i}th item name that you
want to search \n -->  ')
```

```
                    if item_name in Store:
                        print(f' -->>    {item_name} exist in the dictionary')
                        print(f'{item_name} ->  {json.dumps(Store[item_name],
indent = 3)}')
                        print() # empty line for formatting
                    else:
                        print(':( WHooooppppsesseee,  look like the item
doesn\'t exist. Try adding it')
                        print() # empty line for formatting

                    steve_jobs = False
                    break

                else:
                    print(' :(  whoopse didn\'t understand that please only type
numbers or only aplhabet')
                    continue
    else:
        print('the Store has currently no items. first add items then search')


def display():  # fuction to display dictionary item
    print(f'Store -> {json.dumps(Store, indent = 4)}')
    print() # empty line for formatting


# Creating flag for while loops, instead of writing True, sushant can be used
sushant = True

while sushant:

    what = input('type help[h] for help or function name or number to perform
operations or type quit[q] to leave\n -->  ')
    print()
    what = what.lower().strip() # removing white spaace and coverting to lower to
reduce errors

    if what == 'quit' or what == 'q' or what == '6':
        break

    elif what == 'help' or what == 'h' or what == '7':
        print("""               <----------    help    ---------->

            ->  type 1 or insert or ins to add items into the dictionary Store
            ->  type 2 or update or updt to update items in the dictinary Store
```

```
            ->  type 3 or delete or del to delete items from the dictinary
Store
            ->  type 4 or search or srch to find items in the dictinary Store
            ->  type 5 or show or disp to show the dictinary Store
            ->  type 6 or quit or q to quit
            ->  type 7 or help or h to show this message again

                <--------------------------------->
            """)

    elif what == '1' or what == 'insert' or what == 'ins':
        ins()

    elif what == '2' or what == 'update' or what == 'updt':
        update()

    elif what == '3' or what == 'delete' or what == 'del':
        delete()

    elif what == '4' or what == 'search' or what == 'srch':
        search()

    elif what == '5' or what == 'show' or what == 'disp':
        display()
    else:
        continue
```

Output

```
# output
# type help[h] for help or function name or number to perform operations or type
quit[q] to leave
#  -->  h

#                <----------    help    ---------->

#            ->  type 1 or insert or ins to add items into the dictionary Store
#            ->  type 2 or update or updt to update items in the dictinary
Store
#            ->  type 3 or delete or del to delete items from the dictinary
Store
#            ->  type 4 or search or srch to find items in the dictinary Store
#            ->  type 5 or show or disp to show the dictinary Store
#            ->  type 6 or quit or q to quit
```

```
#             ->  type 7 or help or h to show this message again

#                 <--------------------------------->

# type help[h] for help or function name or number to perform operations or type
quit[q] to leave
#  -->  ins

# Enter the name of item
#  -->  iPhone
# Enter the price of iPhone in Rs
#  -->  1_39_000
# Enter the quantity of iPhone
#  -->  345
# Enter the company name or manufacturer name of iPhone
#  -->  Apple

#  --->>  "iPhone" has been added in the Store

# type yes[Y] to add more items or no[N] to leave or just type number of items you
want to add
#  -->  n
# type help[h] for help or function name or number to perform operations or type
quit[q] to leave
#  -->  1

# Enter the name of item
#  -->  iPad
# Enter the price of iPad in Rs
#  -->  2_19_000
# Enter the quantity of iPad
#  -->  567
# Enter the company name or manufacturer name of iPad
#  -->  Appler

#  --->>  "iPad" has been added in the Store

# type yes[Y] to add more items or no[N] to leave or just type number of items you
want to add
#  -->  n
# type help[h] for help or function name or number to perform operations or type
quit[q] to leave
#  -->  2

# Enter the name of item
#  -->  iPad
```

```
# which item you want to update
#         1 : for price
#         2 : for quantity
#         3 : for company name
#         4 : for all
#     -->  3
# Enter the company name or manufacturer name of iPad
#  -->  Apple

#  --->>  "iPad" company name has been update

# type yes[Y] to update more items or no[N] to leave or just type number of items
you want to update
#  -->  2
# Enter the name of 1st item
#  -->  Apple Watch
# Apple Watch  doesn't exist in the Store, Apple Watch and it's values will get add

# Enter the price of Apple Watch in Rs
#  -->  45_890
# Enter the quantity of Apple Watch
#  -->  567
# Enter the company name or manufacturer name of Apple Watch
#  -->  Apple

#  --->>  "Apple Watch" has been added

# Enter the name of 2nd item
#  -->  iPad
# what you want to update
#         1 : for price
#         2 : for quantity
#         3 : for company name
#         4 : for all
#    -->  6
# what you want to update
#         1 : for price
#         2 : for quantity
#         3 : for company name
#         4 : for all
#    -->  7
# what you want to update
#         1 : for price
#         2 : for quantity
#         3 : for company name
#         4 : for all
```

```
#    -->  2
# Enter the quantity of iPad
#  -->  678

#  --->>  "iPad" quantity has been update

# type help[h] for help or function name or number to perform operations or type
quit[q] to leave
#  -->  h

#                 <----------    help    ---------->

#             ->  type 1 or insert or ins to add items into the dictionary Store
#             ->  type 2 or update or updt to update items in the dictinary Store
#             ->  type 3 or delete or del to delete items from the dictinary Store
#             ->  type 4 or search or srch to find items in the dictinary Store
#             ->  type 5 or show or disp to show the dictinary Store
#             ->  type 6 or quit or q to quit
#             ->  type 7 or help or h to show this message again

#                 <------------------------------->

# type help[h] for help or function name or number to perform operations or type
quit[q] to leave
#  -->  show

# Store -> {
#     "iPhone": {
#         "Price": 139000,
#         "Quantity": 345,
#         "Company Name": "Apple"
#     },
#     "iPad": {
#         "Price": 219000,
#         "Quantity": 678,
#         "Company Name": "Apple"
#     },
#     "Apple Watch": {
#         "Price": 45890,
#         "Quantity": 567,
#         "Company Name": "Apple"
#     }
# }

# type help[h] for help or function name or number to perform operations or type
quit[q] to leave
```

```
#  -->  q
```