## 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* notin *Store*:

update\_all()

*else*:

*while True*:

*what\_to\_update* =input('*what you want to update*\n\t*1 : for price*\n\t*2 : for quantity*\n\t*3 : for company name*\n\t*4 : 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('*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 *-->  '*)

*if item\_name* notin *Store*:

update\_all()

*else*:

*while True*:

*what\_to\_update* =input('*what you want to update*\n\t*1 : for price*\n\t*2 : for quantity*\n\t*3 : for company name*\n\t*4 : 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('*:( WHoooopppsesseee,  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('*:( WHoooopppsesseee,  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('*:( WHoooopppsesseee,  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('*:( WHoooopppsesseee,  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*