studentinfo = {

'name': '',

'age': None,

'Fathers Name': '',

'roll': None,

'class': None,

'subjects': []

}

teacher\_info = {

"name": "",

"age": None,

'dept': '',

'salary': None,

"class": [],

"subjects": []

}

hr\_info = {

"name": "",

"age": None,

'salary': None,

'dept': '',

}

def record(person\_type: str, input\_number: int):

info\_list = []

for \_ in range(input\_number):

info = {}

while True:

key = input("Enter key (or 'done' to finish): ").strip().lower()

if key == "done":

break

if key == "name":

value = input(f"Enter {person\_type}'s name: ")

elif key == "age":

value = int(input("Enter age: "))

elif key == "salary" and (person\_type == "Teacher" or person\_type == "HR"):

value = int(input("Enter salary: "))

elif key == "roll" and person\_type == "Student":

value = int(input("Enter roll number: "))

elif key == "class" and person\_type == "Student":

value = int(input("Enter class: "))

elif key == "father\_name" and person\_type == "Student":

value = input("Enter father's name: ")

elif key == "dept" and (person\_type == "Teacher" or person\_type == "HR"):

value = input("Enter department: ")

elif key == "subjects" and (person\_type == "Teacher" or person\_type == "Student"):

subject\_input=input("Enter subject name with comma(,)")

subject\_list=subject\_input.split(',')

value=subject\_list

# sub\_count = int(input("Total subject choose: "))

# subject\_list = []

# for \_ in range(sub\_count):

# subject\_name = input(f"Enter subject name: ")

# subject\_list.append(subject\_name)

# value = subject\_list

# elif key=='class' and (person\_type=='Teacher'):

# teacher\_class=int(input("Total class taken: "))

# class\_list = []

# for \_ in range(teacher\_class):

# class\_name = input(f"Enter class name: ")

# class\_list.append(class\_name)

elif key == 'class' and person\_type == 'Teacher':

class\_input = input("Enter classes with comma (,): ")

class\_list = class\_input.split(',')

value=class\_list

else:

print(f"Invalid key '{key}'.")

continue

info[key] = value

info\_list.append(info)

return info\_list

persontype = input("enter person type: ")

input\_number = int(input(f"how many {persontype} want to entry: "))

record\_list = record(persontype, input\_number)

print((record\_list))

#Another Practice……………….

all\_info={

'Student': {

"name": "",

"age": None,

"roll": None,

"class": None,

"Father's Name": "",

"subjects": [],

},

'Teacher': {

"name": "",

"age": None,

"dept": "",

"salary": None,

"classes": [],

"subjects": [],

},

'HR': {

"name": "",

"age": None,

"salary": None,

"dept": "",

},

}

def record(person\_type: str, input\_number: int):

info\_list = []

for x in range(input\_number):

info = {}

person\_info=all\_info[person\_type]

for key, \_ in person\_info.items():

while True:

if key in ('name', 'dept','Father"s Name'):

value = input(f'Enter {key}: ')

elif key in ("age", "salary", "roll", "class"):

value = int(input(f'Enter {key}: '))

elif (key == "subjects" or key=='classes') and (person\_type=='Teacher' or person\_type=='Student'):

sub\_count = input(f"Enter {key} name with comma(,) : ").split(',')

value = sub\_count

info[key]=value

break

info[key] = value

info\_list.append(info)

return info\_list

person\_type = input("Enter person type (Student, Teacher, HR): ")

input\_number = int(input(f"How many {person\_type}s want to enter: "))

record\_list = record(person\_type, input\_number)

print(record\_list)