In [1]:

```
def fibo(n):
    if n==0:
        return 0
    elif n==1:
        return 1
    elif n==2:
        return 1
    else:
        return fibo(n-1) + fibo(n-2)
var=int(input("Enter the number:"))

print("\n")
for r in range(var):
    print(fibo(r))


```

```
Enter the number:5


0
1
1
2
3
```

In [2]:

```
def add_employee():
    empid=int(input("Enter employee id:"))
    prefix=input("Enter the prifix(e.g., Mr., Mrs., etc):")
    first_name=input("Enter the first name:")
    last_name=input("Enter the last name:")
    designation=input("Enter the employee designation:")
    joining_date=input("Enter employee Joining date")
    salary=float(input("Enter the salary:"))

full_name=f"{prefix}{first_name}{last_name}

return(empid, full_name, designation,joining_date, salary)

def remove_employee(emp_id):
    global employee
    for i, emp in enumerate(employees):
        if emp[0] == emd_id:
            del employees[i]
            print(f"Employee with ID{emp_id} removed successfully.")
            return
            print(f"Employee with ID{emp_id} removed successfully.")

employees=[]

for i in range(5):
    employees.append(add_employee())

employees.append(add_employee())

print("Employee Details:")

for emp in employees:
    print(f"Employee ID:{emp[0]}")
    print(f"Name:{emp[1]}")
    print(f"Designation:{emp[2]}")
    print(f"Joining date:{emp[3]}")
    print(f"Salary:{emp[4]}")
    print()

remove_id int(input("Enter the ID of the employee you want to remove:"))
remove_employee(remove_id)

print()
```

```
  File "C:\Users\Corporate\AppData\Local\Temp\ipykernel_7324\629503281.py", line 10
    full_name=f"{prefix}{first_name}{last_name}
                                              ^
SyntaxError: EOL while scanning string literal
```

In [8]:

```python
# 2) using python data structure, create a directory consising of employee name,id,jod role, joining data
#display full name

def display_full_name(name):
 parts=name.split()
 prefix=parts[0]
 first_name=parts[1]
 last_name=parts[-1]
 return(prefix , first_name, last_name)

employee=[]
employee.append({"empid":1, "name":"Mr. Akhil sha ","join_date":"23/05/2006","salary":79999008})
employee.append({"empid":2, "name":"Mr. vipul cha","join_date":"22/05/2003","salary":30000000005})
employee.append({"empid":3, "name":"Ms. darsita da","join_date":"05/02/2000","salary":741547})
employee.append({"empid":4, "name":"Mr. naina reddy","join_date":"14/01/2012","salary":564545435})
employee.append({"empid":5, "name":"Mr. vishal mana","join_date":"02/05/2004","salary":454244465})
print(employee)
#senior most employee
senior_employee=max(employee,key=lambda emp: emp["join_date"])
print("\n\nSenior most employee: ",display_full_name(senior_employee["name"]))
#employee added
employee.append({"empid":6, "name":"ut jai abalika","join_date":"24/09/2021","salary":76786})
print("--------------NEW EMPLOYEE ADDED-----------------")
print(employee)
#employee removed
removed_employee= employee[2]
print("Removed Employee: ",display_full_name(removed_employee["name"]))
#sorting
employee.sort(key=lambda emp: emp["name"])
#display full name
print("\n Employee list: ")
for emp in employee:
 print(display_full_name(emp["name"]))
#salary is above 80000
print("--------------EMPLOYEE WHOSE SALARY GREATER THAN 80000-----")
for emp in employee:
 if emp["salary"]>80000:
    print(display_full_name(emp["name"]))
```

```
[{'empid': 1, 'name': 'Mr. Akhil sha ', 'join_date': '23/05/2006', 'salary': 79999008}, {'empid': 2, 'name': 'Mr. vipul ch
a', 'join_date': '22/05/2003', 'salary': 30000000005}, {'empid': 3, 'name': 'Ms. darsita da', 'join_date': '05/02/2000', 's
alary': 741547}, {'empid': 4, 'name': 'Mr. naina reddy', 'join_date': '14/01/2012', 'salary': 564545435}, {'empid': 5, 'nam
e': 'Mr. vishal mana', 'join_date': '02/05/2004', 'salary': 454244465}]


Senior most employee:  ('Mr.', 'Akhil', 'sha')
--------------NEW EMPLOYEE ADDED-----------------
[{'empid': 1, 'name': 'Mr. Akhil sha ', 'join_date': '23/05/2006', 'salary': 79999008}, {'empid': 2, 'name': 'Mr. vipul ch
a', 'join_date': '22/05/2003', 'salary': 30000000005}, {'empid': 3, 'name': 'Ms. darsita da', 'join_date': '05/02/2000', 's
alary': 741547}, {'empid': 4, 'name': 'Mr. naina reddy', 'join_date': '14/01/2012', 'salary': 564545435}, {'empid': 5, 'nam
e': 'Mr. vishal mana', 'join_date': '02/05/2004', 'salary': 454244465}, {'empid': 6, 'name': 'ut jai abalika', 'join_date':
'24/09/2021', 'salary': 76786}]
Removed Employee:  ('Ms.', 'darsita', 'da')

 Employee list:
('Mr.', 'Akhil', 'sha')
('Mr.', 'naina', 'reddy')
('Mr.', 'vipul', 'cha')
('Mr.', 'vishal', 'mana')
('Ms.', 'darsita', 'da')
('ut', 'jai', 'abalika')
--------------EMPLOYEE WHOSE SALARY GREATER THAN 80000-----
('Mr.', 'Akhil', 'sha')
('Mr.', 'naina', 'reddy')
('Mr.', 'vipul', 'cha')
('Mr.', 'vishal', 'mana')
('Ms.', 'darsita', 'da')
```