def add\_data(pb):

name=input("Enter name..")

number=int(input("Enter mobile number"))

flag=False

for i in range(len(pb)):

if name < pb[i][0]:

pb.insert(i, (name, number))

flag = True

break

if not flag:

pb.append((name,number))

return pb

def display(pb):

for c in pb:

print(c)

def fib\_search(pb):

name=input("Enter name to search:")

l = len(pb)

elim = -1

f2 = 0 #Two finbonacci numbers before fn

f1 = 1 #One finonacci numbers before fn

fn = f1+f2

flag=0

while fn<=l:

f1, f2 = fn, f1

fn = f1+f2

while fn>1:

curr = min(elim+f2,l-1)

print(curr," ",f1," ",f2," ",fn)

if pb[curr][0] == name:

flag=1

print(name,"is present at location",curr)

print(pb[curr][0]," ",pb[curr][1])

break

elif pb[curr][0] > name:

fn = f2

f1 = f1 - f2

f2 = f2 - f1

else:

fn = f1

f1 = f2

f2 = fn - f1

elim = curr

if flag==0:

print("name is not in the list...")

if \_\_name\_\_=="\_\_main\_\_":

pb=[]

print("1.Insert name and mobile number....")

print("2.display name and mobile number....")

print("3.Search friend...")

while(True):

print("enter choice:")

ch=int(input())

if ch==1:

pb=add\_data(pb)

elif ch==2:

display(pb)

elif ch==3:

fib\_search(pb)

else:

print("wrong choice...")

break