Q1

SumN.py

```
num=int(input("num: "))
sum=0
while(num>1):
    if(num%2==0):
        sum+=num
    num=num-1
print("sum:",sum)
```

Q2

SumN02.py

```
# Python program to find the sum of integers betwee
num=int(input("num: "))

sum=0
if(num<0):
    while(num<=0):
        sum+=num
        num+=1
else:
    while(num>=0):
        sum+=num
        num-=1

print("sum:",sum)

```

Q3

SumofN.py

```python
import math

x=int(input("x: "))
y=int(input("y: "))
if(x==0 or y==0):
    print("value must be non zero")
else:
 print("gcd:",math.gcd(x,y))


# def gcd(a,b):
#   while(a>0 and b>0):
#       if(a>b):
#           a=a%b
#       else:
#           b%=b
#   if(a==0):
#       return b
#   return a


# x=int(input("x: "))
# y=int(input("y: "))

# if(x==0 and y!=0 ) or (x!=0 and y==0):
#   print('value must be non zero')
# else:
#   print("gcd:",gcd(x,y))
```

Q4

Fibonacci.py

```python
n1=0
n2=1
nt=0
n=int(input("k: "))
nt=n1+n2
print(n1)
print(n2)
sum=0
l=[]
l.append(0)
l.append(1)
while(nt<=n):
    print(nt)
    l.append(nt)
    n1=n2
    n2=nt
    nt=n1+n2

for i in range(0,len(l)):
    if(i%2==0):
        sum+=l[i]

print("sum:",sum)

```

Q5

OddandEven.py

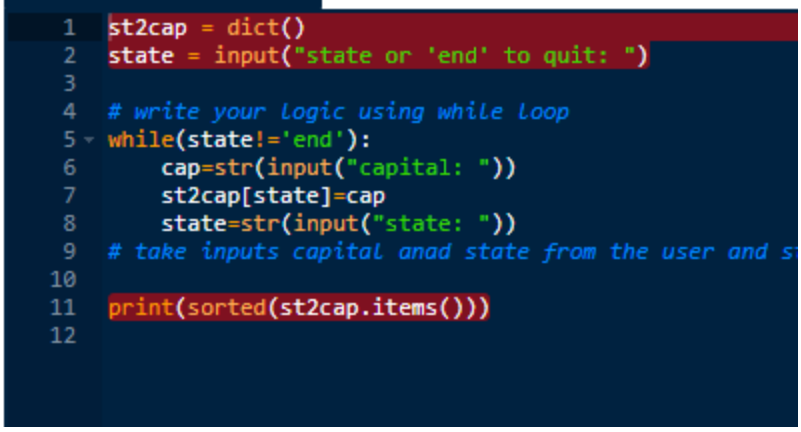
```python
k=int(input("k: "))
i=0
while(i<k):
    if(i%2==0):
        print(i,"even number")
    else:
        print(i,"odd number")
    i+=1

```

Q6

e once

StateCap.py



```
st2cap = dict()
state = input("state or 'end' to quit: ")

# write your logic using while loop
while(state!='end'):
    cap=str(input("capital: "))
    st2cap[state]=cap
    state=str(input("state: "))
# take inputs capital anad state from the user and s

print(sorted(st2cap.items()))
```