**1.Fibonacci series**

def fib(n):

if n==0:

return 0

elif n==1:

return 1

else:

return fib(n-1)+fib(n-2)

n=8

for i in range(0,n+1):

print(fib(i))

**2.Amstrong number**

def amstrong(n):

temp=n

sum=0

while temp>0:

d=temp%10

sum+=d\*\*3

temp=temp//10

return sum==n

n=153

if sum==n:

print("armstrong")

else:

print("is not")

**3.Gcd of two numbers**

def gcd(a, b):

if b == 0:

return a

else:

return gcd(b,a % b)

a= 48

b= 18

print(gcd(a,b))

**4.Maximum number**

array=[23,45,23,23,56]

print(max(array))

**5.Factorial of a number**

def fact(n):

if n==0:

return 1

else:

return n\*fact(n-1)

n=5

print(fact(n))

**6.Reverse of a number**

def rev(s):

s1=s[::-1]

return s1

s='sravanthi'

print(rev(s))

**7.Print prime numbers**

def CheckPrime(i,num):

if num==i:

return 0

else:

if(num%i==0):

return 1

else:

return CheckPrime(i+1,num)

n=10

for i in range(2,n+1):

if(CheckPrime(2,i)==0):

print(i)

**8.check prime or not**

def prime(n,i=2):

if n==2:

return True

elif n%i==0:

return False

return prime(n,i+1)

n=10

if prime(n):

print(n,"is prime number")

else:

print(n,"is not prime number")

**9.Check palindrome or not**

def pal(n):

return str(n)==str(n)[::-1]

n='121'

if pal(n):

print(n,"palindrome")

else:

print(n,"notpalindrome")

copy string

**10.Copy string**

def copy\_string(src, dest=''):

if src=='':

return dest

else:

return copy\_string(src[1:], dest + src[0])

source="Hello,World!"

destination=copy\_string(source)

print("Source string:", source)

print("Destination string:",destination)