1. Write a Python program to check if the given number is a Disarium Number?

Answer=

n=input("ENter a number")

ln=len(n)

n=int(n)

res=0

i=ln

num=n

while n!=0:

digit=n%10

res=res+pow(digit,i)

n=int(n/10)

i=i-1

if res==num:

print("Yes")

else:

print("No")

1. Write a Python program to print all disarium numbers between 1 to 100?

Answer=

def num(a,b):

for i in range(a,b+1):

temp=i

s=0

while temp>0:

s+=1

temp//=10

temp=i

sum=0

while temp>0:

sum=int(sum+pow(temp%10,s))

temp//=10

s-=1

if sum==i:

print(i,end=" ")

num(1,100)

1. Write a Python program to check if the given number is Happy Number?

Answer=

def happyno(n):  
 num=n  
 res=0  
 while n!=0:  
 rem=n%10  
 res=res+(rem\*rem)  
 n//=10  
 return res  
n=int(input())  
num=n  
while num!=1 and num!=4:  
 num=happyno(num)  
  
if num==1:  
 print("Yes")  
elif num==4:  
 print("No")

1. Write a Python program to print all happy numbers between 1 and 100?

Answer=

def Happyno(n):  
 s=0  
 while n>0:  
 rem=n%10  
 s=s+(rem\*rem)  
 n//=10  
 return s  
  
for i in range(1,101):  
 result=i  
  
 while result!=1 and result!=4:  
 result=Happyno(result)  
 if result==1:  
 print(i)  
 print("")

1. Write a Python program to determine whether the given number is a Harshad Number?

Answer=

def num(n):  
 r=n  
 rem=0  
 sum=0  
 while r>0:  
 rem=r%10  
 sum+=rem  
 r//=10  
  
 if (n%sum==0) and (n%sum==0):  
 print("Yes")  
 else:  
 print("No")  
  
num(156)

1. Write a Python program to print all pronic numbers between 1 and 100?

Answer=

n=int(input())  
f=0  
for i in range(n):  
 if i\*(i+1)==n:  
 f=1  
 break  
if f==1:  
 print("Yes")  
else:  
 print("no")