2.write a program to check the given Number is arm strong or not using recursion method

```
PROGRAM:

def arm(num):

if num==0:

return num

else:

return pow((num%10),order)+arm(num//10)

num=int(input("enter a number"))

order=len(str(num))

sum=arm(num)

if sum==int(num):

print("armstrong number")

else:

print("not armstrong")

TIME COMPLEXITY:O(logn)

INPUT:153
```

**OUTPUT:** 

PROBLEMS OUTPUT DEBUG CONSOLE PORTS TERMINAL

PS C:\Users\surya\Desktop\fruit> & C:\Users\surya\AppData\Local\Programs\Python\Python312\python.exe c:\Users\surya\Desktop\fruit\Untitled-1.py enter a number153
armstrong number
PS C:\Users\surya\Desktop\fruit>