1.PROGRAM TO CHECK THE GIVEN NUMBER IS STRONG NUMBER OR NOT?

main.py

```
n=int(input("enter the number:"))
temp=n
sum=0
while(n>0):
    rem=n%10
    fact=1
    for i in range(1,rem+1):
        fact=fact*i
    sum+=fact
    n=n//10
if(temp==sum):
    print("strong number")
else:
    print("not strong number")
```

Output

```
enter the number:145
strong number

=== Code Execution Successful ===
```

2.PROGRAM TO CHECK THE GIVEN NUMBER IS ARMSTRONG OR NOT?

main.py

```
n=int(input("enter the number:"))
l=len(str(n))
temp=n
sum=0
while(n>0):
    rem=n%10
    sum=sum+pow(rem,l)
    n=n//10
if(temp==sum):
    print("armstrong number")
else:
    print("not armstrong number")
```

Output

```
enter the number:45
not armstrong number

=== Code Execution Successful ===
```

3.PROGRAM TO CHECK THE GIVEN TWO STRINGS ARE ANAGRAM STRINGS OR NOT?

main.py

```
s1=input("enter string1:")
s2=input("enter string2:")
if(sorted(s1)==sorted(s2)):
    print("anagram")
else:
    print("not anagram")
```

Output

```
enter string1:tea
enter string2:eat
anagram

=== Code Execution Successful ===
```

4.PROGRAM TO CHECK THE GIVEN STRING IS PANAGRAM OR NOT?