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**Assignment1.1 :**

**Program:**

```
#print ("Enter a number to check for armstrong")
number=int(input("Enter a number to check for armstrong is : "))
org_num=number
sum=0
while(number > 0):
    digit = number % 10
    number=number-digit
    number = number / 10
    print ("digit_val",int(digit)," | power val",pow(int(digit),3))
    sum=sum+pow(int(digit),3)
    print("current running sum is:sum",sum )
    print ("\n")
#print (number)

if org_num == sum:
    print("given number",org_num," is an arm strong number!!")
else:
    print("given number",org_num," is not an arm strong number!!")
```

**output:**

```
Enter a number to check for armstrong is : 153
digit_val 3 | power val 27
current running sum is:sum 27
```

```
digit_val 5 | power val 125
current running sum is:sum 152
```

```
digit_val 1 | power val 1
```

current running sum is:sum 153

given number 153 is an arm strong number!!

## Assignment 1.2

### Program:

```
num=int(input("Enter the number: "))
c=0
a=1
b=1
fib_found=0
if num==0 or num==1:
    print("Yes",num , " is fibnacci number !")
else:
    while c<=num:
        c=a+b
        a=b
        b=c
        #print (a,b,c)
        if c==num:
            print("Yes",num , " is a fibnacci number !")
            fib_found=1
    if not fib_found:
        print("No",num , " is not a fibnacci number !")
```

### output:

Enter the number: 123

No 123 is not a fibnacci number !