```
                    ┌──────────────┐
                    │     Main     │
                    └──────────────┘
                           │
                    ┌──────────────┐
                    │ Integer n, sum │
                    └──────────────┘
                           │
                  ┌────────────────────┐
                  │ Output "enter your number" │
                  └────────────────────┘
                           │
                    ┌──────────────┐
                    │   Input n    │
                    └──────────────┘
                           │
                    ┌──────────────┐
                    │   sum = 0    │
                    └──────────────┘
                           │
                    ┌──────────────┐
                    │ Integer num  │
                    └──────────────┘
                           │
                    ┌──────────────┐
                    │   num = n    │
                    └──────────────┘
                           │
```

Main

Integer n, sum

Output "enter your number"

Input n

sum = 0

Integer num

num = n

n>0 — True

False

Integer k

k = n%10

n = n/10

sum = sum+(k*k*k)

num==sum

False — Output "this is not a amstrong number"

True — Output "this is a amstrong number"

End

Pseudo Code for Armstrong Numbers:-

.Declare integers **num,n,k,sum**

.Use n to get input from the user.

.Assign n to variable num (**n=num**)

.Assign the variable sum as 0.(**Sum=0**)

.Create a while loop with a condition **num!=0.**

.inside the while loop:-

    .Assign **k=num%10**

    .Assign **sum=sum+k*k*k**.

    .Assign **num=num/10.**

.If the condition in while is false create a if with condition sum==n:-

       .If **sum==n** is **true** ,then n is a Armstrong number

       .If **sum==n** is **false**,then n is not a Armstrong number.

    .