1. **Magic Number in Python**

A magic number is a number, when the digits are added recursively it gives a single-digit equal to 1.

**Input Format:**

N=1234

1+2+3+4=10=1+0=1

1234 is a Magic number

**Source Code:**

n=int(input("enter the number: "))

x=n

while x>=10:

  sum=0

  while x>0:

    r=x%10

    sum=sum+r

    x=x//10

  x=sum

if sum==1:

  print(n,"is a magic number")

else:

  print(n,"is not magic number")

1. **Extract Numbers from String Python.**

To display the exact numbers, present in a string.

**Input format:**

String = apple cost 100 per kg dozen means 12

**Output format:**

[100,12]

**Source Code:**

s=input("enter string: ")

# print original string

print("The original string:", s)

# splitting the string into words

num = []

for i in s.split():

    if i.isdigit():

        num.append(int(i))

# print numbers in the string

print("Extract Numbers:", num)