\*\*Approach 1:\*\*

1) Iterate over the number while its not zero

2) extract last number using modulo

3) update number using division(remove last digit)

4)return

handling negative numbers: store negative sign and use it in result directly

\*\*Problem: Range in 32 bits only, otherwise return 0\*\*

2 ways to check if number in range:

1) Mathematically check if rev < pow(2,31)

if rev < -2\*\*31 or rev >(2\*\*31)-1:

return 0

return rev

2) or make use of bit\_length() function:

if rev.bit\_length >= 32:

return 0

return rev

\*\*code\*\*

neg = False

if x<0:

neg = True

rev = 0

x = abs(x)

while x!=0 :

rem = x % 10

rev = rev\*10 + rem

x = x//10

if neg:

rev = -rev

if rev.bit\_length() >= 32:

return 0

return rev