Problem -2: Given a double x and integer n, calculate x raised to power n. Basically Implement pow(x, n).

```
def pow(x, n):
  if n == 0:
    return 1.0
  elif n < 0:
   x = 1/x
    n = -n
  result = 1.0
  while n > 0:
    if n % 2 == 1:
      result *= x
    x *= x
    n //= 2
  return result
x = 2.00000
n = 10
print(pow(x, n))
                                              input
 1024.0
  ... Program finished with exit code 0
```

Press ENTER to exit console.