Write a Python program to perform Cyclic Redundancy Check

```
from math import log, ceil
def CRC(dataword, generator):
  dword = int(dataword, 2)
  l_gen = len(generator)
  dividend = dword << (l_gen - 1)
  shft = ceil(log(dividend + 1, 2)) - l_gen
  generator = int(generator, 2)
  while dividend >= generator or shft >= 0:
    rem = (dividend >> shft) ^ generator
    dividend = (dividend & ((1 << shft) - 1)) | (rem << shft)
    shft = ceil(log(dividend+1, 2)) - l_gen
  codeword = dword << (l_gen-1)|dividend
  print("Remainder:", bin(dividend).lstrip("-0b"))
  print("Codeword :", bin(codeword).lstrip("-0b"))
dataword = input("enter dataword\n")
generator = input("enter key\n")
CRC(dataword, generator)
```