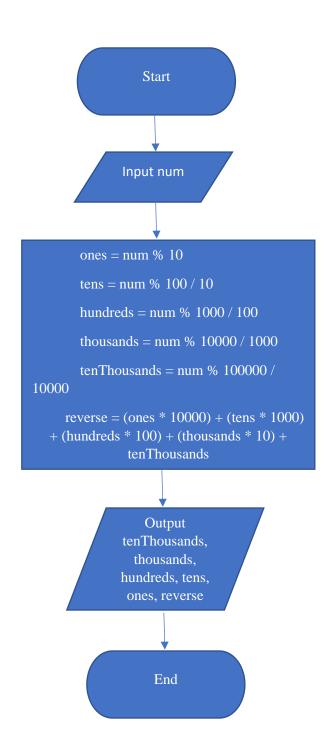
Sequential Problem

Create a flowchart and pseudocode that would input a 5-digit number and then extract its one's digit, ten's digit, hundred's digit, thousand's digit and ten thousand's digit. Output the extracted digits and output the digits in reverse order (you must use a formula / arithmetic expression in reversing the order of the 5-digit number). NOTE: Use appropriate words for your variables.



```
Variables used:
       num, ones, tens, hundreds, thousands,
       tenThousands, reverse, are numeric.
Begin:
       Display "Enter a 5-digit number:"
       accept num
        ones = num \% 10
       tens = num \% 100 / 10
        hundreds = num % 1000 / 100
       thousands = num % 10000 / 1000
       tenThousands = num % 100000 / 10000
       reverse = (ones * 10000) + (tens * 1000) + (hundreds * 100)
+ (thousands * 10) + tenThousands
       Display "Ten Thousand's Digit is:", tenThousands
       Display "Thousand's Digit is:", thousands
       Display "Hundred's Digit is:", hundreds
       Display "Ten's Digit is:", tens
       Display "One's Digit is:", ones
       Display "The reverse order is:", reverse
End.
```