CS1021 Tutorial 3

- Q1 Translate each of the following pseudo-code statements into a sequence of ARM assembly language instructions. Assume that x and y are signed integers and that x is in R1 and y in R2.
 - (i) if (x==0)x = x + 5;
 - (ii) if $(x \ge 5)$ x = 0;
 - (iii) x = 10; y = 5; while (x > 0) { y = y*x;

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- (iv) if (x < 9) {
 x = x https://powcoder.com
 } else {
 x = 0;
 } Add WeChat powcoder
- (v) if (x > 9) {
 x = 0;
 if (y > 9) {
 y = 0
 } else {
 y = y + 1;
 }
 } else {
 x = x + 1;
 }
- Q2 Write an ARM assembly language program to compute x^y . Assume x and y are unsigned integers and that x is in R1, y in R2 and the result is stored in R0.