Multiplikation:

16-Bit Variante

```
ram(0) <= "0110" & "000000000000";
                                                 -- IN A X
ram(1) <= "0010" & "00000010100";
                                                 -- Store in M(20) X
ram(2) <= "0110" & "000000000000";
                                                 -- In A Y
ram(3) <= "0010" & "00000010101";
                                                 -- Store in M(21) Y
ram(4) <= "0111" & "00000010001";
                                                 -- Springe zur Ergebnis ausgabe wenn 0
ram(5) <= "0001" & "00000010110";
                                                 -- Load M(22)
ram(6) <= "0011" & "00000010100";
                                                 -- Addiere Acc + M(20)
ram(7) <= "0010" & "00000010110";
                                                 -- Store M(22)
ram(8) <= "0001" & "00000010101";
                                                 -- Load M(21)
ram(9) <= "0100" & "00000010111";
                                                 -- Sub A -M(23)
ram(10) <= "1001" & "00000000011";
                                          -- Jump ram(3)
ram(17) <= "0001" & "00000010110";
                                          --Load M(22)
ram(18) <= "0110" & "00000000001";
                                          -- Out
ram(20) <= "00000000000000000";
                                          -- M(20) \le 0 X
ram(21) <= "0000000000000000";
                                          -- M(21) \le 0 Y
                                          -- M(22) <= 0 Ergebnis
ram(22) <= "0000000000000000";
                                          -- M(23) <= 1 1
ram(23) <= "0000000000000001";
--8-Bit Variante --
ram(0) <= "00000000" & "100" & "00000";
                                                 -- IN A X
ram(1) <= "00000000" & "001" & "10100";
                                                 -- Store in M(20)
ram(2) <= "00000000" & "100" & "00000";
                                                 -- IN A Y
ram(3) <= "00000000" & "100" & "10101";
                                                 -- Store in M(21)
ram(4) <= "00000000" & "101" & "10001";
                                                 -- JZ 17
ram(5) <= "00000000" & "000" & "10110";
                                                 -- Load M(22)
ram(6) <= "00000000" & "010" & "10100";
                                                 -- Add Acc + M(20)
ram(7) <= "00000000" & "001" & "10110";
                                                 -- Store in M(22)
ram(8) <= "00000000" & "000" & "10101";
                                                 -- Load M(21)
ram(9) <= "00000000" & "011" & "10111";
                                                 -- Sub Acc- M(23)
ram(10) <= "00000000" & "111" & "00011";
                                                 -- Jum ram(3)
ram(17) <= "00000000" & "000" & "10110";
                                                 -- Load M(22)
ram(18) <= "00000000" & "100" & "00001";
                                                 -- Out
ram(20) <= "00000000" & "000" & "00000":
                                                 -- M(20) = 0
ram(21) <= "00000000" & "000" & "00000";
                                                 -- M(21) = 0
ram(22) <= "00000000" & "000" & "00000";
                                                 -- M(22) = 0
ram(23) <= "00000000" & "000" & "00001";
                                                 -- M(23) = 1
```