$$U = \{(x, y, x+y, x-y, 2x) \in F^5 : x, y \in F\}$$

$W_1, W_2, W_3 \in F^5 = ?$ s.t. $W_1, W_2, W_3 \neq \{0\}$, $F^5 = U \oplus W_1 \oplus W_2 \oplus W_3$

Let $W_1 = \{(0,0,a,0,0) \in F^5 : a \in F\}$

$W_2 = \{(0,0,0,b,0) \in F^5 : b \in F\}$

$W_3 = \{(0,0,0,0,c) \in F^5 : c \in F\}$

Consider an arbitrary element $(p, q, r, s, t) \in F^5$.

$$\left.\begin{aligned}(p,q,r,s,t) = {} & (p, q, p+q, p-q, 2p) + \\ & (0, 0, r-p-q, 0, 0) + \\ & (0, 0, 0, s-p+q, 0) + \\ & (0, 0, 0, 0, t-2p)\end{aligned}\right\} \in U + W_1 + W_2 + W_3$$

$\Rightarrow F^5 = U + W_1 + W_2 + W_3$

Consider $v_1 = (x, y, x+y, x-y, 2x) \in U$

$v_2 = (0, 0, a, 0, 0) \in W_1$

$v_3 = (0, 0, 0, b, 0) \in W_2$

$v_4 = (0, 0, 0, 0, c) \in W_3$

$v_1 + v_2 + v_3 + v_4 = 0 \iff x = y = a = b = c = 0.$

$\Rightarrow$ The only way of creating 0 is to take each element $= 0$ $\Rightarrow U \oplus W_1 \oplus W_2 \oplus W_3 = F^5.$