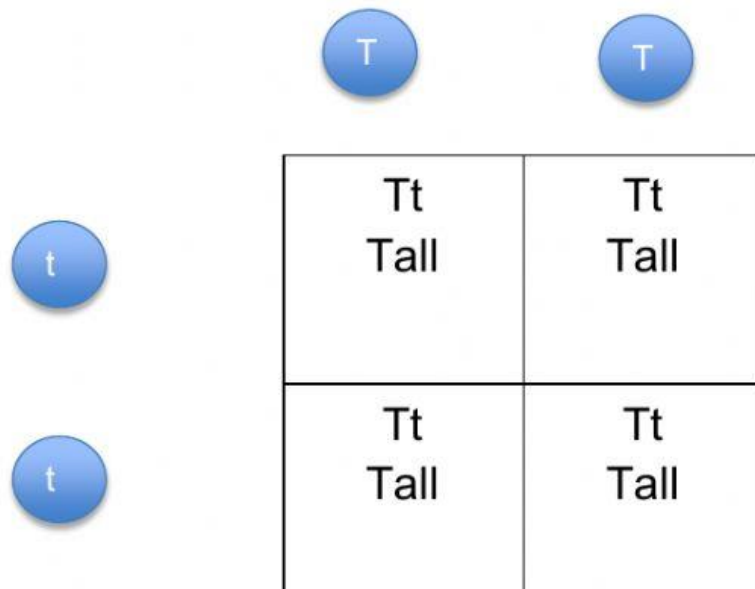
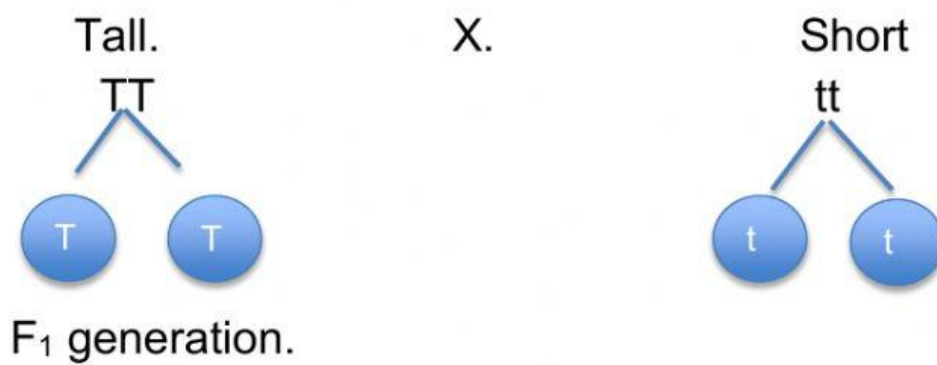


WORKSHEET NO. 1

HERIDITY - MENDELIAN MONOHYBRID CROSS

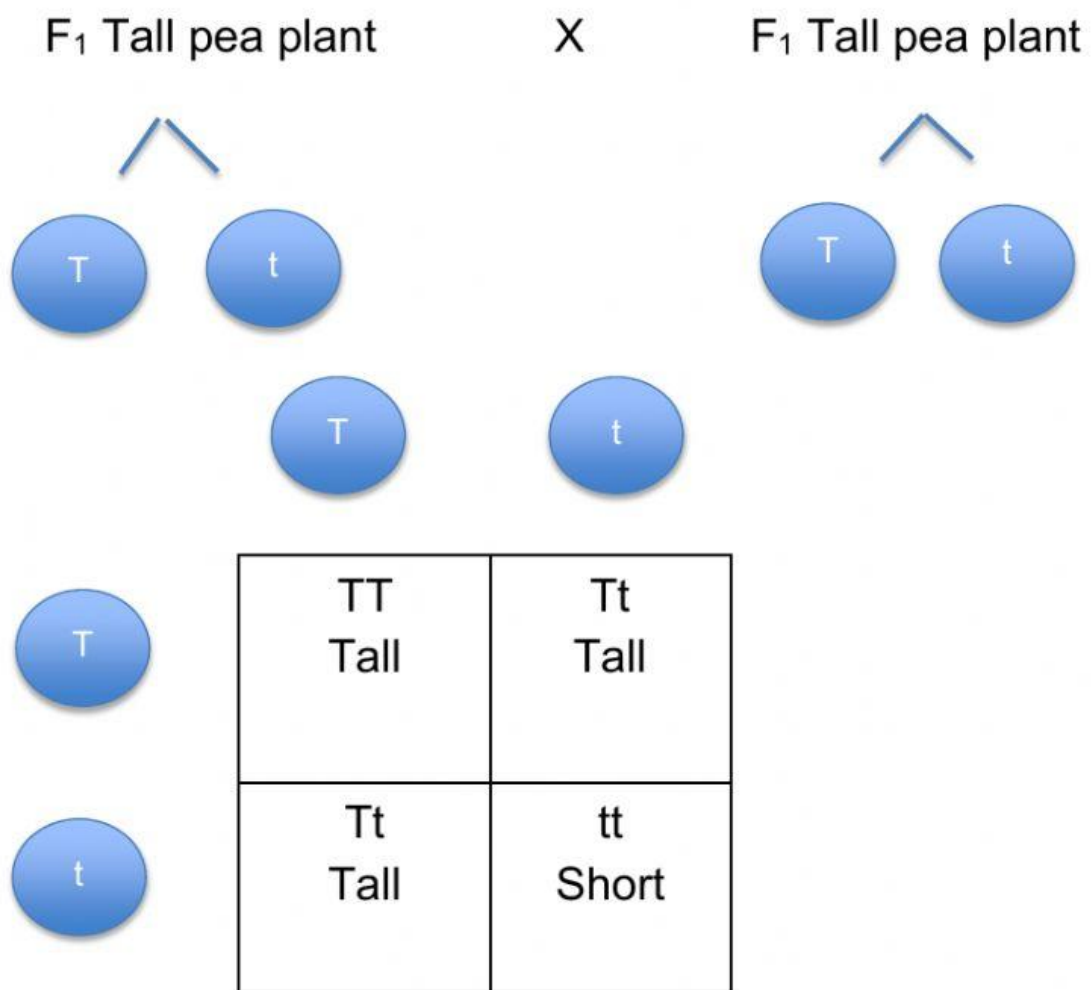
Character selected - (Stem height)

Contrasting traits - (Tall & Short)



Result : All F₁ generation plants were tall

Self-pollinating all F₁ generation plants to raise F₂ generation



Result : In F₂ Generation $\frac{3}{4}$ pea plants are Tall and $\frac{1}{4}$ pea plants are short.

F₂ generation pea plants occur in the ratio 3 : 1

3 : 1 - This ratio is known as Mendelian Monohybrid

Phenotypic ratio.
(Phenotype is the externally visible characters in an organism expressed by its allele combination of genes or genotype.

1 : 2 : 1

- this is the Mendelian Monohybrid genotypic ratio as $\frac{1}{4}$ pea plant has the genotype TT, $\frac{1}{2}$ pea plant has the genotype Tt and $\frac{1}{4}$ pea plant has the genotype tt.