WORKSHEET NO. 1

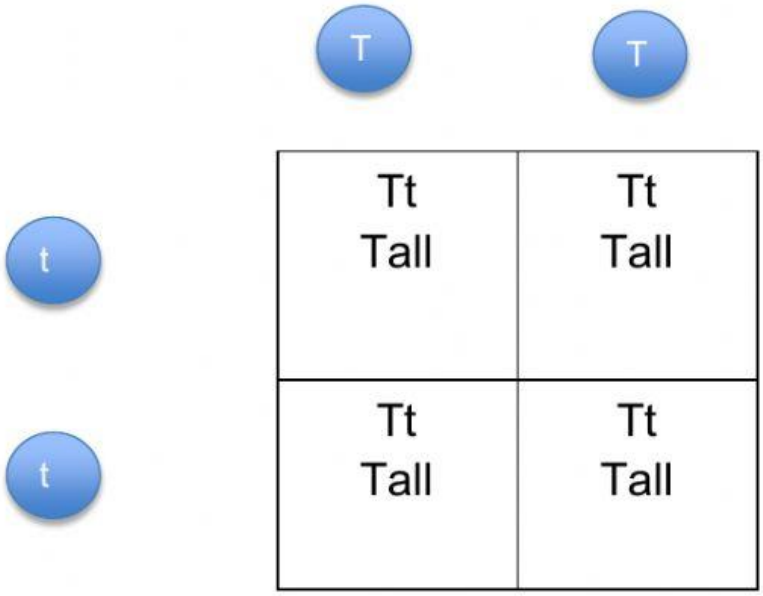
HERIDITY - MENDELIAN MONOHYBRID CROSS

Character selected - (Stem height)
Contrasting traits - (Tall & Short)

Tall. X. Short

TT tt

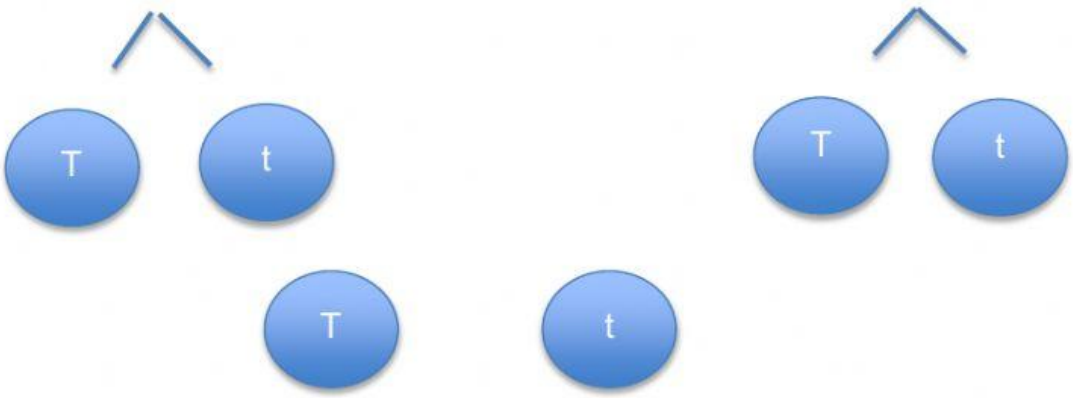
F_1 generation.

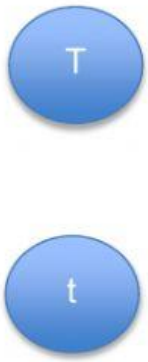


Result : All F_1 generation plants were tall

Self-pollinating all F_1 generation plants to raise F_2 generation

F_1 Tall pea plant X F_1 Tall pea plant





TT Tall	Tt Tall
Tt Tall	tt Short

Result : In F_2 Generation ¾ pea plants are Tall and ¼ pea plants are short.

F_2 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 ¼ pea plant has the genotype TT, ½ pea plant has the genotye Tt and ¼ pea plant has the genotype tt.