**[Que-50.19] - How does the kernel trick work in SVM?**

### **Kernel Trick in SVM**

**Definition:** The kernel trick allows SVM to operate in a higher-dimensional space without explicitly computing the coordinates of the data in that space.

**Types of Kernels:**

* **Linear Kernel:** For linearly separable data.
* **Polynomial Kernel:** For polynomially separable data.
* **RBF (Radial Basis Function) Kernel:** For non-linear data.
* **Sigmoid Kernel:** Similar to neural networks, useful for specific problems.