Description of the synthetic\_cancer\_data.

1. Name : synthetic\_cancer\_data
2. Number of Variables for synthetic\_cancer\_data:11 (10 numerical,1categorical)
3. Description of Variables for synthetic\_cancer\_data.

* **Variable 1:Sample\_ No** **(Numeric)**

* **Variable 2**:**Thickness\_of\_Clump (Numeric)**:Benign cells are more likely monolayers and malignant or cancerous cells are multilayer

* **Variable 3:Cell\_Size\_Uniformity(Numeric)**:Benign cells does not vary in size and malignant or cancer cell vary in size

* **Variable 4:Cell\_Shape\_Uniformity(Numeric)**:Benign cells does not vary in shape and malignant or cancer cell vary in shape

* **Variable 5:Marginal\_Adhesion(Numeric)**:Benign cells are more likely stick together and cancer cells are loose or does not stick together
* **Variable 6:Single\_Epithelial\_Cell\_Size(Numeric)**:In benign cells epithelial cells are normal and malignant or cancer cells are significantly enlarged
* **Variable 7:Bare\_Nuclei(Numeric)**:In benign cells the bare nuclei is not surrounded by cytoplasm and in cancer cells it is surrounded by cytoplasm
* **Variable 8:Bland\_Chromatin(Numeric):**Benign cells have uniform or fine chromatin and cancer cells have coarse chromatin
* **Variable 9:Normal\_Nucleoli(Numeric):**In Benign cells nucleoli is very small and in cancer cells nucleoli is more prominent
* **Variable 10:Mitoses(Numeric)**:In benign cells the cell growth is normal and in cancer cells there is abnormal cell growth
* **Variable 11:Outcome(Categorical):**No denotes the presence of benign and Yes denotes the presence of malignant breast cancer