**ASSIGNMENT 1.1**

1. Various sources of Big Data

* **Social media**
* **Banking**
* **Online shopping**
* **Sensors**

2. 3 V's of Big data

1. **Velocity**
2. **Variety**
3. **Volume**

3. Horizontal Scaling and Vertical Scaling

Horizontal Scaling:

* **Adding more nodes to the existing system.**

Vertical Scaling:

* **Adding resources to a node**

4. Need and Working of Hadoop

Need: **Hadoop can store and process large volume of unstructured data** **and structured data efficently .It redefines the challenges of bigdata with additional v’s such as veracity and value.**

Working: **Hadoop has two main core components namely**

* **HDFS –stores the data sets in distributed system**
* **Map Reduce –processes the data stored by co-ordinating and combining the results**