**Power BI Assignment 1**

**1. What do you mean by BI? Explain.**

**Answer.** Business intelligence (BI) refers to **the procedural and technical infrastructure that collects, stores, and analyse the data produced by a company's activities**. BI is a broad term that and descriptive analytics .encompasses data mining, process analysis, performance benchmarking,

**2. How Power-BI helps in BI, and how does it help Analysts? Explain.**

**Answer.** **Power BI is a BI and data visualization tool that leverages visual analytics to empower people and organizations in making the most of their data. The engaging visualizations created in Power BI take the excel workflow to the next level and help stakeholders make sense of the massive amounts of data available.**

**3. Explain Descriptive analytics?**

**Answer. Descriptive analytics describes the use of a range of historic data to draw comparisons. Most commonly reported financial metrics are a product of descriptive analytics, for example, year-over-year pricing changes, month-over-month sales growth, the number of users, or the total revenue per subscriber.**

**4. Explain Predictive analytics?**

**Answer. Predictive analytics is the use of data to predict future trends and events. It uses historical data to forecast potential scenarios that can help drive strategic decisions.**

**The predictions could be for the near future—for instance, predicting the malfunction of a piece of machinery later that day—or the more distant future, such as predicting your company’s cash flows for the upcoming year.**

**4. Explain perspective analytics?**

**Answer. Prescriptive analytics is a process that analyzes data and provides instant recommendations on how to optimize business practices to suit multiple predicted outcomes. In essence, prescriptive analytics takes the “what we know” (data), comprehensively understands that data to predict what could happen, and suggests the best steps forward based on informed simulations.**

**5. Write five real-life questions that power Bi can solve.**