**Assignment 1**

Q1) what is BI?

Answer:

It is a Business Intelligence tools has a set of processes, architectures, and technologies that convert raw data into meaningful information that drives valuable business actions. It is a suite of software and services to transform raw data into actionable intelligence and knowledge.

With BI systems organizations can identify market trends and spot business problems that need to be addressed. It helps on data visualization that enhances the data quality and thereby the quality of decision making

Q2) What are three basic Elements of Power BI?

### ****Power Query****

Power Query is one of the important components of Power BI. This can be included in your Excel or can be used as a component of the [Power BI Desktop](https://intellipaat.com/blog/power-bi-desktop/). Using Power Query, you can delete data from numerous data sources and extract data from a wide range of different databases like Oracle, SQL Server, MySQL, and other different databases. You can also fetch data from records like text files, CSV files, or Excel files.

### ****Power BI Desktop****

### Power BI Desktop is a new component in the Power BI suit. It is an integrated development tool for Power Query, Power Pivot, and Power View. It lets you build advanced queries, models, and reports. With Power BI Desktop, it is easy to advance your skills in BI and your experience in data analytics.

**Power Map**

Power Map is used to visualize geospatial data in 3D mode. As soon as the visualization renders in 3D mode, it provides another dimension to it. In Power Map, you can assume one attribute as the length of a column in 3D and another attribute as a heatmap view. Based on a geographical location, the data can be highlighted. Geographical locations can be a country, state, city, or street address.

Q3) What is power BI?

**Integrates seamlessly with existing applications:**

Power BI integrates easily with existing business environment allowing to adopt analytics and reporting capabilities.

**Rich personalized dashboards:**

The crowning feature of Power BI is the information dashboards, which can be customized to meet the exact need of any enterprise.

**Publish reports securely:**

The tool helps to setup automatic data refresh and publish reports allowing all the users to avail the latest information.

**No memory and speed constraints:**

Shifting an existing BI system to powerful cloud environment with Power BI embedded eliminates memory and speed constraints ensuring data is quickly retrievable and analysed.

**No specialized technical support required:**

Power BI provides agile inquiry and analysis without the need for specialized technical support. It supports a powerful natural language interface and the use of intuitive graphical designer tools.

**Extracting business intelligence rapidly and accurately:**

It helps in transforming your enterprise data into rich visuals, thus extracting business intelligence for enhanced decision making.

**Balanced simplicity and performance:**

The in-memory analysis technology and DAX scripting language are both exquisite examples of a balance between simplicity and performance.

**Supports Advanced Data services :**

Microsoft [Power BI development](https://www.saviantconsulting.com/powerbi-development.aspx) teams can help integrate the environment seamlessly with advanced cloud services like Cognitive services, Cortana or Bot framework.

Q4) Explain, how can we import data in power BI?

1. To get started, log in to Power BI and select **Get Data**.
2. In the **Files** menu, select **Get**.
3. Select  **Drive**, then find and select the Excel or CSV file you would like to import or connect to Power BI.
4. Click **Connect**

Q5) Name some BI tools other than Power BI?

### Tableau

1. SAP Business Objects ·
2. Datapine ·
3. Micro Strategy ·
4. SAS Business Intelligence ·
5. Yellowfin BI ·
6. QlikSense ·
7. Zoho Analytics ·
8. Sisense

10. Looker