GCP version 2 Assignment 1

1. What is Google Cloud Platform Document AI?

   GCP Document AI is a service that we use to extract structured data from unstructured documents with the help of Machine Learning. Unstructured data in the form of receipts, invoices, medical documents etc.

2. What are the database services offered by Google's cloud platform?

   The different database services offered by GCP includes
   Cloud SQL: For MySQL, Postgres, MS SQL Server
   Big Table: A serverless Wide-Column format, NoSQL Database
   Cloud Spanner: A highly available, serverless transactional DB
   Datastore: A fully-managed, NoSQL database.
   Firestore: A serverless Document based NoSQL DB like MongoDB.

3. What is the difference between cloud search and cloud identity? Prepare a list of the applications for cloud search and cloud identity.

   Cloud Search is a search engine like service, which allows us to search for data stored in different data sources like documents, files, websites etc. Its makes searching for data easier.

   Cloud Identity is an IAM service that helps you to manage user access to GCP services. Cloud Identity can be used to assign permissions to users and enforce security policies.

4. What is conversational AI, and how does it work? List and Explain various GCP Conversation AI services.

   Conversational AI are chatbots, designed to have conversation with human users. They are used to provide answer questions, complete tasks, write and debug code. Its is designed using natural language processing (NLP) and machine learning (ML) to understand and respond to human language.

5. Give an example of GCP's Media Translation service.

   An example for Media Translation service would be, an EdTech company that produces educational videos in English who wants to make their class videos available to a wider audience. They use GCP's Media Translation service to translate their videos into other languages to have it published in Spanish, French, and German, which helps them expand their catchment to the entire continent.

6. Explain how to use Google Cloud Platform's cloud logging and monitoring features.

   GCP Cloud Logging and Monitoring features can be used to collect, store and analyze applications and infrastructure. This information can be used to troubleshoot problems, identify performance bottlenecks, and improve the overall health of applications. This can be done by the following steps:

   1. Select the project from GCP console.
   2. Go to Cloud Logging
   3. Enable Cloud logging for the project
   4. Configure Cloud Logging for the project. More info can be accessed using the docs for Cloud Logging.

7. How to use Cloud Identity to generate and manage user IDs in the cloud?

   To generate and manage userID’s using the IAM service Could Identity,

   1. Go to Cloud Identity
   2. Go to Users Tab
   3. Create user helps to create user
   4. The created user willbe assigned a user ID
   5. These user ID’s can be managed using the edit user option for each user ID’s.