Assignment-2

* Problem Statement: - Tostudy a explore

5 BH watson specch to text 4 text to

Speech APJ's

b) Objective: To learn (oncept of text to speech a speech to text conversion in NLD.

Theory:

JBH Watson API: - the JBH cuafson

API services combine ML, NL, an

integrated dialogy editors to create

convensation blow between your apps

any cloud environment. Developer

tools that make it easy to incorporate

conversation language 4 Brea Search

into your application.

Speech recognition: It is technique or capability that enables a program or system to process human speech. It is also referred as voice recognisation



According to techopedia the U.Se of computer how a sow passed technique to identify a process the human voice It is primarily used to convert spoken words into computer sent.

speech to text a text to speak;—
with watson text to speech, you can
generate human like audio from written
sent in prove the costome, experience
a engagement by interacting with
osers in multiple language 4 to nes.
Increase context accessibility for users
with different abilities is like
a utomated customer service.
interaction to increase efficiency.

Algorithm: first set your microphone device using re cognize () Accept voice from the using Mic. Remove hoise 4 distrotion from the speech. convert the speech or Voice to text. Now stores the text as string in a Variable. Split the string into 3 parts:First Operand, operator 4 second operand. convert the operand to integer.
Finally do calculations

* Platform: 64-bit open Source 4nux
JBM watson cloud, json

Input: voice Speech - any audio Format file a text paragraph.

A text paragraph converted to text

A conclusion: - we learned the concept do speech to text, text to speech Conversation in NLP

FAG'S

ai) Which Python modulos are used in speech recognition?

—) Python speech recognition module is \$ sudo pip install speech & recognition.

92) List IBM watson Module used For TTS

· JBH text to Speech.