

Running Instructions

Instructions for Running the Python Script for the Sender Side

1. Open a terminal or command prompt.
2. Navigate to the directory where the Python script is located.
3. Run the Python script using the following command:

```
python .\sender-combined.py
```

4. When prompted, enter the data you want to encode.
For example: Enter data: <input bitstring>
5. The script will display the original data, encoded data, and prompt you to enter indices to flip. Enter up to 2 indices in 1-indexing divided by length of the encoded data, separated by a space.
For example: Enter up to 2 values (a and b): <value1><value2>
6. The script will then display the Encoded data with header and the corrupted data after flipping bits.
7. The script will then show the corrupted data and indicate that the transmission is complete.
8. The elapsed time for the operation will be displayed.

Instructions for Running the Receiver-Side Python Script

1. Open a terminal or command prompt.
2. Navigate to the directory where the Python script is located.
3. Run the Python script using the following command:

```
python .\receiver-combined.py
```

4. The script will start recording the audio signal. This may take a moment.
5. Once the recording is complete, the script will display the following information:
 - Received data.
 - Final corrected data.
 - Detected errors at: <Error indices on 0-indexing>