

Data communication assignment

Submitted by

Anvi Verma (2021BITE023)

Rohinish K Singh (2021BITE074)

Title: Implementation of digital signal generator

Language used: Python

Libraries used:

- Matplotlib (for adding specifications to the graph).
- Seaborn (for plotting the graph)
- Pandas (for making a data frame in case of Manchester and differential Manchester and then plotting that data frame using seaborn)
- Numpy (for generating a continuous graph in case of analog signal)

How to run the code:

There are several files named as encoder, decoder, analog, and main. Encoder consist of all the encoding technique, decoder consist of all the decoding techniques, analog consist of the encoding techniques for analog inputs. All these files are then imported to main file, where the runner code ask the user to input the choices and then perform the desired operations by importing the required functions.

References: class notes and ppts provided