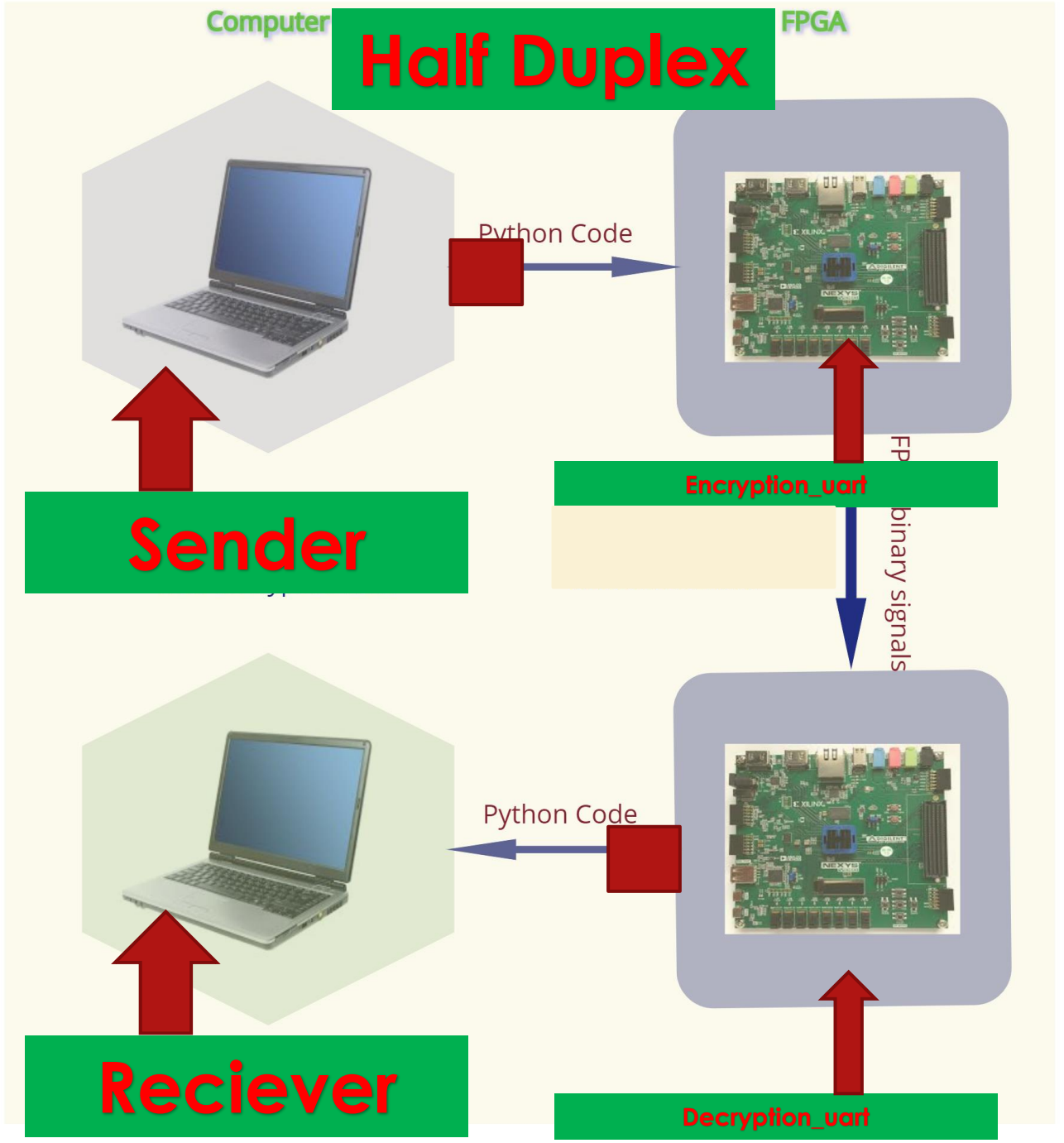
Instruction:

- Connect Pmod JB of two fpga.
- Connect VCC and GND of Pmod JB of two fpga
- Connect two fpga to two laptop.
- Select one fpga as encrypter and another one as decrypter.
- Program the encrypter first and program the decrypter second.
- Use the python file to send and receive data.

More detail Inside.

Read me

OUR COMMUNICATION MODEL



Python files

- There are three files.
- Text_uploader: Its data handling code. This is unseen to user.
- Reciever: This code connects with i/o device and receives from it. Make sure your decrypter FPGA is connect to it. This code saves the received file in data_received and assigncs name encrypt** where ** is the suitable number as per previous files.
- Sender: This code sends the file named data_input that is situated in data_to_send folder.

Uart with AES

- This file is the final project.
- It has two folders.

1. Encryption_uart: It contains the uart file and encryption
2. Decryption_uart:It contains the uart file and decryption

In two fpga board, program encryption_uart to one and decryption_uart to another. Connect the second pin , Vcc and GND of PMOD B of these two fpga devices.

Utilize the python code.