Reliable Data Transfer Module

This is the main module for part 1 portion of Homework 3

reliable_data_transfer.**run_receiver**(*ip, port*)

> Sets up Receiver object to receive data from ip and port and puts received data in order within Receiver object
>
> | Parameters: | • **ip** – ip address to receive data from |
> | --- | --- |
> | | • **port** – port number to receive data from |

reliable_data_transfer.**run_router**(*ip, sender_port, receiver_port*)

> Sets up a socket intended to middleman between Sender object and Receiver object, adding chances of packet loss and corruption to test receiver and sender interaction with lost packets and corrupted packets
>
> | Parameters: | • **ip** – ip address to get data from |
> | --- | --- |
> | | • **sender_port** – port to receive data from sender |
> | | • **receiver_port** – port to receive data from receiver |

reliable_data_transfer.**run_sender**(*ip, port*)

> Sets up Sender object with ip and port with predefined data and runs Sender function to send data to ip and port
>
> | Parameters: | • **ip** – ip address to send data to |
> | --- | --- |
> | | • **port** – port number to send data to |

reliable_data_transfer.**test**()

> Sets up receiver and sender processes to interact with each other

reliable_data_transfer.**test_with_router**()

Sets up router, receiver and sender processes to run simultaneously to allow interaction between all three processes