Phase	Activity	Code and Output
Extract	The dataset was extracted from the "RT_IOT2022.csv".	<pre>import pandas as pd data = pd.read_csv("RT_IOT2022.csv") data = pd.DataFrame(data) data.head()</pre>
		no id.orig_p id.resp_p proto service flow_duration fwd_pk
		0 0 38667 1883 tcp mqtt 32.011598
		1 1 51143 1883 tcp mqtt 31.883584
		2 2 44761 1883 tcp mqtt 32.124053
		3 3 60893 1883 tcp mqtt 31.961063 4 4 51087 1883 tcp mqtt 31.902362
		5 rows × 85 columns
Transform	The columns were transformed into a different data type for easy data manipulation.	data["flam_duration", "fud_pkts_per_sec", "bud_pkts_per_sec", "flam_pkts_per_sec", "down_um_retio"]).apply(pd.to_numeric) data data flamp d.resp_p proto service flow_duration fud_pkts_tot bud_pkts_tot fud_data_pkts_tot bud_data_pkts_tot bud_data_
Load	The output came to be to result the number per each attack types, as well as the average time for it.	: # Get the time duration each attack types data_attack_type = data.groupby(["Attack_type"])["flow_duration"].mean() data_attack_type ARP_poisioning

To conclude, the midterm quiz done was to