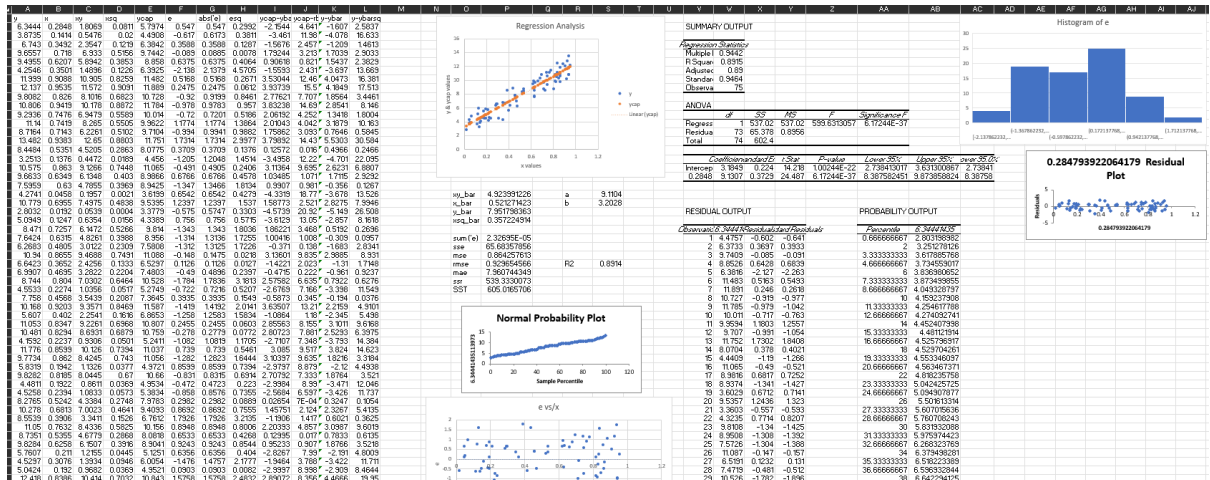


Part A

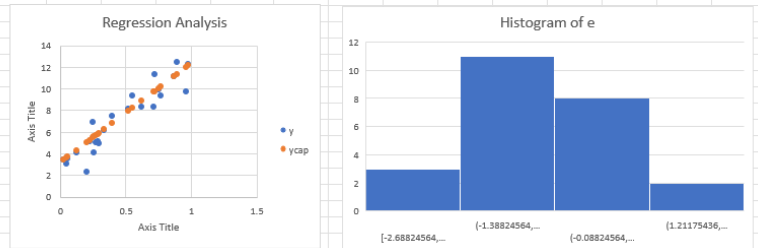
[illegible]

Work on Training Data



TESTING DATA WORK

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
y	x	ycap	e	e_sq	abs_e	y-ybar	y-ybarsq	ycap-ybar	ycap-ybarsq															
3.397539	0.027206	3.450675	-0.05314	0.002823	0.053136	-3.75481	14.0986	-3.70167	13.70238951															
7.467513	0.396252	6.812824	0.654689	0.428618	0.654689	0.315164	0.099328	-0.33952	0.115277182							SSR	183.2008							
8.315798	0.713349	9.701698	-1.3859	1.920718	1.3859	1.163449	1.353614	2.549349	6.499179587							SST	218.593							
8.309891	0.619632	8.847901	-0.53801	0.289454	0.53801	1.157542	1.339904	1.695552	2.87489533															
12.43841	0.890606	11.31658	1.121835	1.258513	1.121835	5.286063	27.94246	4.164228	17.34079261															
6.948992	0.248428	5.466089	1.482903	2.199	1.482903	-0.20336	0.041354	-1.68626	2.843472451															
2.351169	0.201594	5.039415	-2.68825	7.226665	2.688246	-4.80118	23.05133	-2.11293	4.464489958									y_bar	7.152349					
3.522185	0.055537	3.708782	-0.1866	0.034818	0.186597	-3.63016	13.17809	-3.44357	11.85815181									R2	0.838091					
9.35813	0.547374	8.189605	1.168525	1.365451	1.168525	2.205781	4.865472	1.037256	1.075900718							a	9.110371							
11.11345	0.870359	11.13211	-0.01866	0.000348	0.018664	3.961099	15.6903	3.979763	15.83851102							b	3.202822							
5.033997	0.269361	6.656804	-0.62281	0.387889	0.622807	-2.11835	4.487417	-1.49555	2.236655529															
6.137698	0.332331	6.230481	-0.09278	0.008609	0.092783	-1.01465	1.029517	-0.92187	0.849839814							MAE	0.789311							
3.08212	0.046149	3.623256	-0.54114	0.292828	0.541135	-4.07023	16.56676	-3.52909	12.45449815							sse	27.22791							
5.170329	0.288463	5.830827	-0.6605	0.436259	0.660499	-1.98202	3.928405	-1.32152	1.746419193							mse	1.134496							
4.062765	0.259699	5.568773	-1.50601	2.268059	1.506008	-3.08958	9.545528	-1.58358	2.50771346							rmse	1.065127							
11.30703	0.721935	9.779917	1.527113	2.332074	1.527113	4.154681	17.26137	2.627568	6.904111823															
8.095555	0.522158	7.959875	0.13568	0.018409	0.13568	0.943206	0.889638	0.807526	0.652097874															
9.359504	0.770366	10.22114	-0.86164	0.742418	0.861637	2.207155	4.871533	3.068792	9.417482096															
9.90627	0.750346	10.03876	-0.13249	0.017553	0.132486	2.753921	7.58408	2.886407	8.331343876															
5.164621	0.223309	5.237254	-0.07263	0.005276	0.072633	-1.98773	3.951063	-1.91509	3.66758883															
4.130518	0.12105	4.305629	-0.17511	0.030664	0.175111	-3.02183	9.131461	-2.84672	8.103812993															
12.2971	0.980275	12.13349	0.16361	0.026768	0.16361	5.14475	26.46845	4.98114	24.81175673															
9.703482	0.962763	11.97395	-2.27047	5.15503	2.270469	2.551133	6.508282	4.821603	23.24785219															
4.982304	0.292246	5.865289	-0.88299	0.779664	0.882986	-2.17005	4.709096	-1.28706	1.656522257															



The findings of data indicate the model has worked finely with the testing data

The error in both Testing and Training Data is form of Standard Normal Distribution as visible from Histogram and therefore we can say our model has worked quite well in predicting the target label y in testing data.

Although Note the value of R2 HAS REDUCED SIGNIFICANTLY FROM 0.89 to 0.838

i.e relevancy of model has decreased over training data although it has performed well in examining errors but failed in replicating our population