

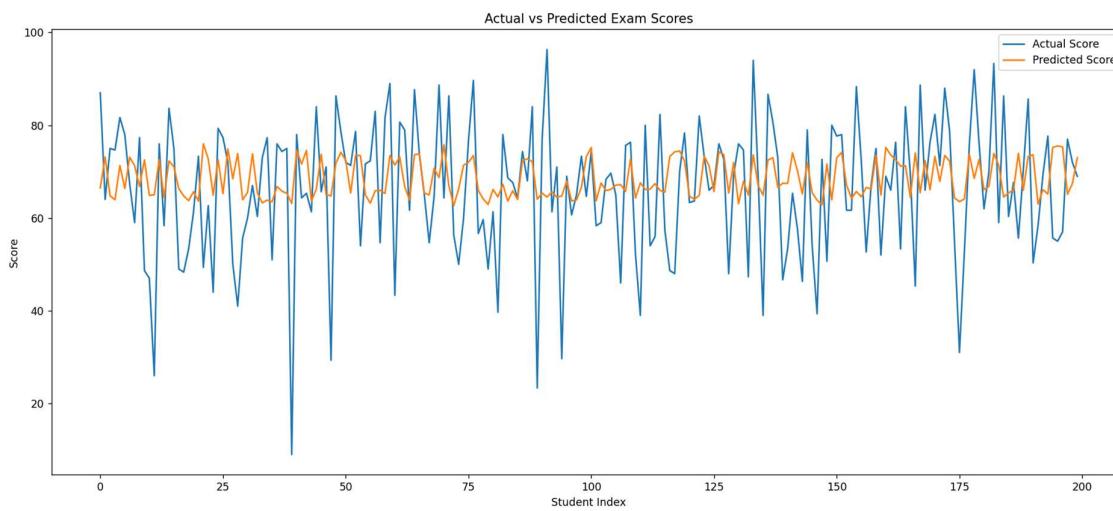
MULTI-LINEAR AND POLYNOMIAL REGRESSION

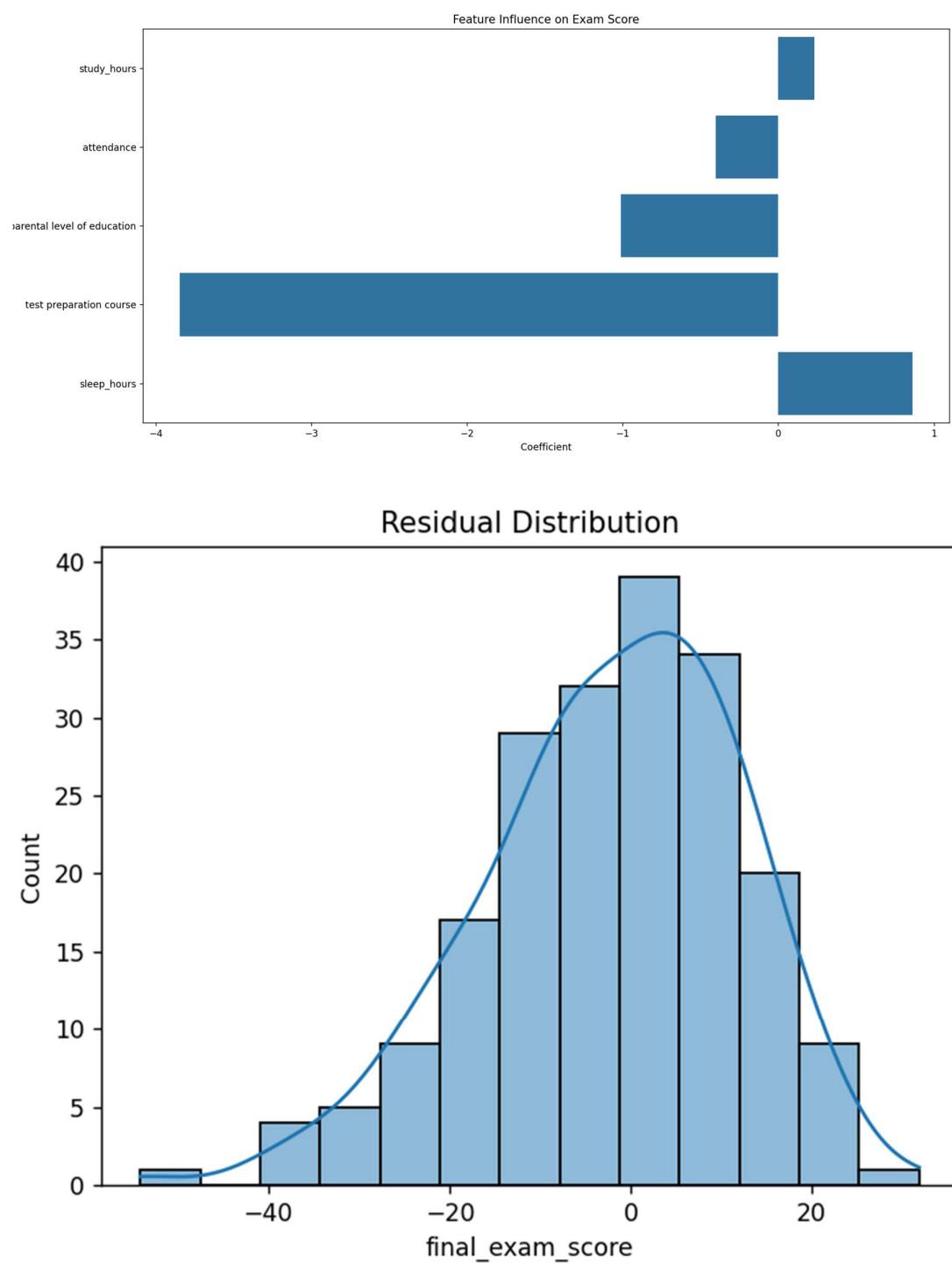
1. Student Performance

Output:

```
JANASREE P 24BAD040
MSE: 207.05407001047286
RMSE: 14.389373510006363
R2 Score: 0.03411211351611809
Ridge R2: 0.0341517258208468
Lasso R2: 0.03431998082853116
```

Plots and figures:





2.Vehicle Fuel efficiency

Output:

```
Degree 2: MSE=13.941158940364417, RMSE=3.7337861401484176, R2=0.7407089260880414
Degree 3: MSE=13.98754305379455, RMSE=3.7399923868631806, R2=0.7398462297630657
Degree 4: MSE=14.443392221902418, RMSE=3.8004463187765745, R2=0.73136790878228
Ridge R2: 0.7408954599024051
```

Plots and figures

