





```
[40]: plt.scatter(y_test,y_pred_svm)
plt.plot(y_test,y_test, color='red')
plt.xlabel('Actual')
plt.ylabel('Predicted')
plt.title('SVM: Actual vs Predicted')
```

Out[40]: Text(0.5, 1.0, 'SVM: Actual vs Predicted')



```
In [41]: # Table Results
Table = PrettyTable(["Model","R-Squared","MAE","MSE","RMSE"])
Table.add_row(["Linear Regression", R2_lin, mae_lin, mse_lin, rmse_lin])
Table.add_row(["Decision Tree", R2_dt, mae_dt, mse_dt, rmse_dt])
Table.add_row(["NNN", R2_knn, mae_knn, mse_knn, rmse_knn])
Table.add_row(["Random Forest", R2_rf, mae_rf, mse_rf, rmse_rf])
Table.add_row(["Neural Network", R2_nn, mae_nn, mse_nn, rmse_nn])
Table.add_row(["SVM", R2_svm, mae_svm, mse_svm, rmse_svm])
print("Models Performance Sorted By R-Squared Values")
Table.sortby = "R-Squared"
print(Table)

Models Performance Sorted by R-Squared Values
-----
| Model | R-Squared | MAE | MSE | RMSE |
-----
| SVM | 0.3373 | 353.3543 | 281388.0445 | 530.4602 |
| Linear Regression | 0.5397 | 326.7375 | 195443.5773 | 442.09 |
| Decision Tree | 0.7192 | 198.4635 | 113256.1256 | 345.3448 |
| RNN | 0.7747 | 201.818 | 95671.1062 | 309.3075 |
| Neural Network | 0.8548 | 158.2314 | 61641.2817 | 248.2766 |
| Random Forest | 0.8662 | 147.5391 | 57655.2637 | 240.1151 |
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```