**Regression Analysis**

**Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Command **cor(grades$quiz1, gradesquiz2)** will give you:

|  |  |  |  |
| --- | --- | --- | --- |
| *a* | *b* | *c* | *D* |
| correlation | covariance | Summary statistics | Error information |

1. In scatter plot command without regression line, **col = red** will give you:

|  |  |  |  |
| --- | --- | --- | --- |
| *a* | *b* | *c* | *D* |
| Dots in red colour | Border of the plot in red colour | X label in red colour | Error information |

1. For **Durbin Watson Statistics**, the **package** to be used is:

|  |  |  |  |
| --- | --- | --- | --- |
| *a* | *b* | *c* | *D* |
| psych | psyck | exactRankTests | Car |

1. For checking the assumption of Independence of Errors, you will use:

|  |  |  |  |
| --- | --- | --- | --- |
| *a* | *b* | *c* | *D* |
| Scatter Plot | Box Plot | Histogram | Bar diagram |

1. For checking the assumption of Normality, you will use:

|  |  |  |  |
| --- | --- | --- | --- |
| *a* | *b* | *c* | *D* |
| Scatter Plot | Box Plot | Histogram | Bar diagram |

1. Adjusted R Square adjusts:

|  |  |  |  |
| --- | --- | --- | --- |
| *a* | *b* | *c* | *D* |
| Number of observations and numbers of Independent variables | *P* value associated with *t*-statistics | *P* value associated with *F*-statistics | All given |

1. If *P* value associated with *t*-statistics of an Independent Variable, x is 0.70 [alpha = 0.05]

|  |  |  |  |
| --- | --- | --- | --- |
| *a* | *b* | *c* | *D* |
| Slope of x is bad | Slope of x is good | Overall model is good | Overall model is bad |

1. If *P* value associated with *t*-statistics of an Independent Variable, x is 0.070 [alpha = 0.05]

|  |  |  |  |
| --- | --- | --- | --- |
| *a* | *b* | *c* | *D* |
| Slope of x is bad | Slope of x is good | Overall model is good | Overall model is bad |

1. If *P* value associated with *F*-statistics of an Independent Variable, x is 0.070 [alpha = 0.01]

|  |  |  |  |
| --- | --- | --- | --- |
| *a* | *b* | *c* | *D* |
| Slope of x is bad | Slope of x is good | Overall model is good | Overall model is bad |

1. VIF associated with an IV more than 10 suggests

|  |  |  |  |
| --- | --- | --- | --- |
| *a* | *b* | *c* | *D* |
| Slope of IV is bad | Drop the IV | IV is the best predictor | Slope of IV is good |