```
 * Encoding: UTF-8.
* Load the data.
GET FILE = 'self_esteem_gpa.sav'.

>Error # 61 in column 12.  Text: self_esteem_gpa.sav
>The filename is not valid.
>Execution of this command stops.

* Descriptive statistics.
DESCRIPTIVES VARIABLES = Self_Esteem GPA
  /STATISTICS = MEAN STDDEV MIN MAX.
```

## Descriptives

**Descriptive Statistics**

| | N | Minimum | Maximum | Mean | Std. Deviation |
|---|---|---|---|---|---|
| Self_Esteem | 3 | 25.00 | 34.00 | 29.0000 | 4.58258 |
| GPA | 4 | 12.00 | 30.00 | 19.0000 | 7.74597 |
| Valid N (listwise) | 3 | | | | |

```
 * Pearson correlation between Self-Esteem and GPA.
CORRELATIONS
  /VARIABLES = Self_Esteem GPA
  /PRINT = TWOTAIL NOSIG
  /MISSING = PAIRWISE.
```

## Correlations

**Correlations**

| | | Self_Esteem | GPA |
|---|---|---|---|
| Self_Esteem | Pearson Correlation | 1 | .929 |
| | Sig. (2-tailed) | | .242 |
| | N | 3 | 3 |
| GPA | Pearson Correlation | .929 | 1 |
| | Sig. (2-tailed) | .242 | |
| | N | 3 | 4 |

```
 * Simple linear regression (predicting GPA from Self-Esteem).
REGRESSION
  /DEPENDENT GPA
  /METHOD = ENTER Self_Esteem.
```

# Regression

### Variables Entered/Removed[a]

| Model | Variables Entered | Variables Removed | Method |
|---|---|---|---|
| 1 | Self_Esteem[b] | . | Enter |

a. Dependent Variable: GPA

b. All requested variables entered.

### Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .929[a] | .862 | .724 | 1.60357 |

a. Predictors: (Constant), Self_Esteem

### ANOVA[a]

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | 16.095 | 1 | 16.095 | 6.259 | .242[b] |
| | Residual | 2.571 | 1 | 2.571 | | |
| | Total | 18.667 | 2 | | | |

a. Dependent Variable: GPA

b. Predictors: (Constant), Self_Esteem

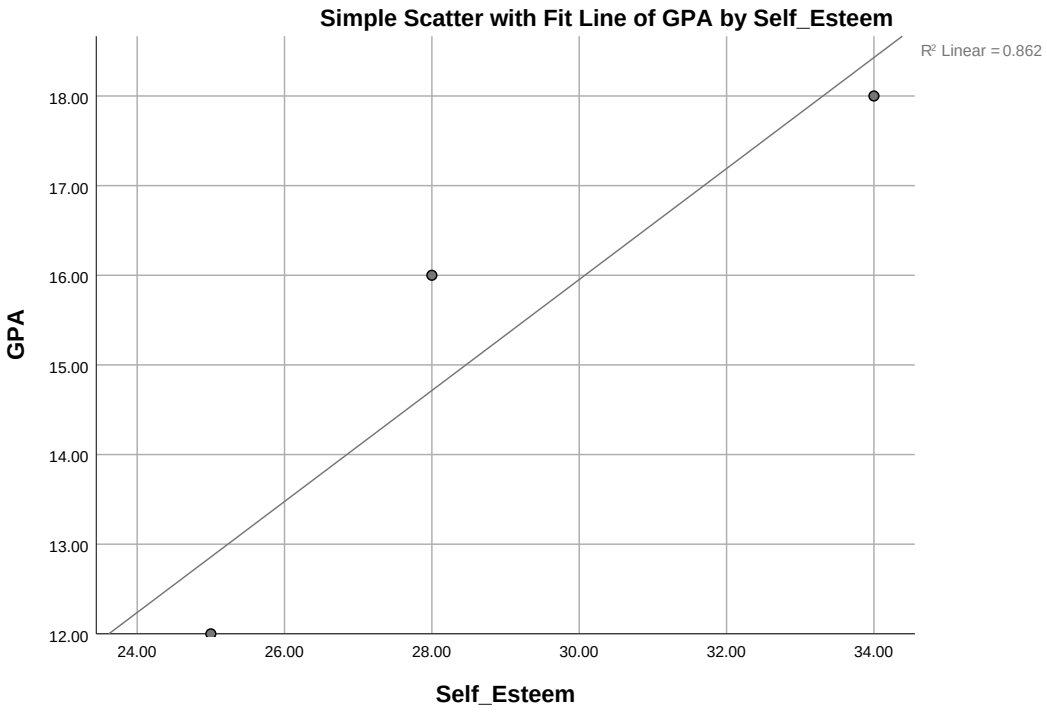
**Coefficients[a]**

| Model | | Unstandardized Coefficients | | Standardized Coefficients | | |
|---|---|---|---|---|---|---|
| | | B | Std. Error | Beta | t | Sig. |
| 1 | (Constant) | -2.619 | 7.235 | | -.362 | .779 |
| | Self_Esteem | .619 | .247 | .929 | 2.502 | .242 |

a. Dependent Variable: GPA

```
 * Chart Builder.
GGRAPH
  /GRAPHDATASET NAME="graphdataset" VARIABLES=Self_Esteem GPA MISSING=LISTWISE
 REPORTMISSING=NO
  /GRAPHSPEC SOURCE=INLINE
  /FITLINE TOTAL=YES.
BEGIN GPL
  SOURCE: s=userSource(id("graphdataset"))
  DATA: Self_Esteem=col(source(s), name("Self_Esteem"))
  DATA: GPA=col(source(s), name("GPA"))
  GUIDE: axis(dim(1), label("Self_Esteem"))
  GUIDE: axis(dim(2), label("GPA"))
  GUIDE: text.title(label("Simple Scatter with Fit Line of GPA by Self_Esteem"
))
  ELEMENT: point(position(Self_Esteem*GPA))
END GPL.
```

## GGraph


Simple Scatter with Fit Line of GPA by Self_Esteem
R² Linear = 0.862
GPA
18.00
17.00
16.00
15.00
14.00
13.00
12.00
24.00
26.00
28.00
30.00
32.00
34.00
Self_Esteem