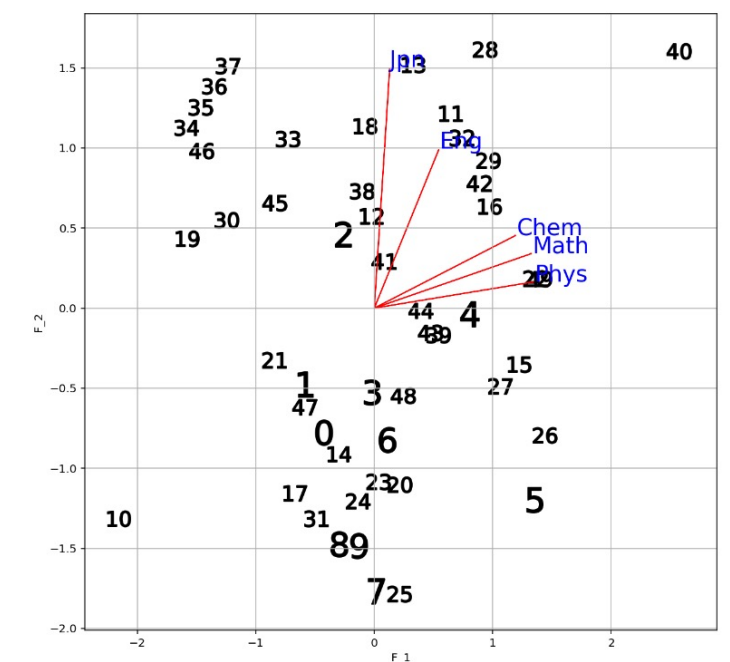


Mini Quiz 1

fa_subjects5.ipynb の解析の概要

- 50人分の5科目の試験成績データを入力。
- スクリーンプロットより、共通因子数は [A] が適当と判断。
- `get_factor_variance()`の結果より、これらの共通因子でデータのおよそ [B] % が説明可能。
- バイプロットの点の数は [C]、矢印の本数は [D]。
- [E] から、[A] 個の潜在的な共通因子それぞれの意味を把握できる。
- [F] から、共通因子の観点における各学生の特徴を把握できる。

	Factor1	Factor2
var	2.343354	1.574543
prop_var	0.468671	0.314909
cum_var	0.468671	0.783579

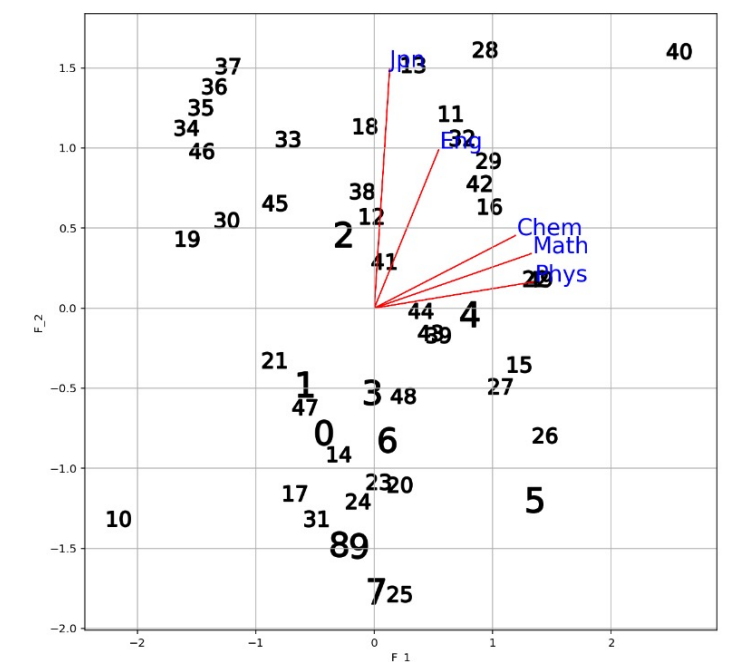


Ans. of Mini Quiz 1

fa_subjects5.ipynb の解析の概要

- 50人分の5科目の試験成績データを入力。
- スクリーンプロットより、共通因子数は [A: 2] が適当と判断。
- get_factor_variance()の結果より、これらの共通因子でデータのおよそ [B: 78.4] % が説明可能。
- バイプロットの点の数は [C: 50]、矢印の本数は [D: 5]。
- [E: 矢印の向き] から、[A: 2] 個の潜在的な共通因子それぞれの意味を把握できる。
- [F: 各点の位置] から、共通因子の観点における各学生の特徴を把握できる。

	Factor1	Factor2
var	2.343354	1.574543
prop_var	0.468671	0.314909
cum_var	0.468671	0.783579

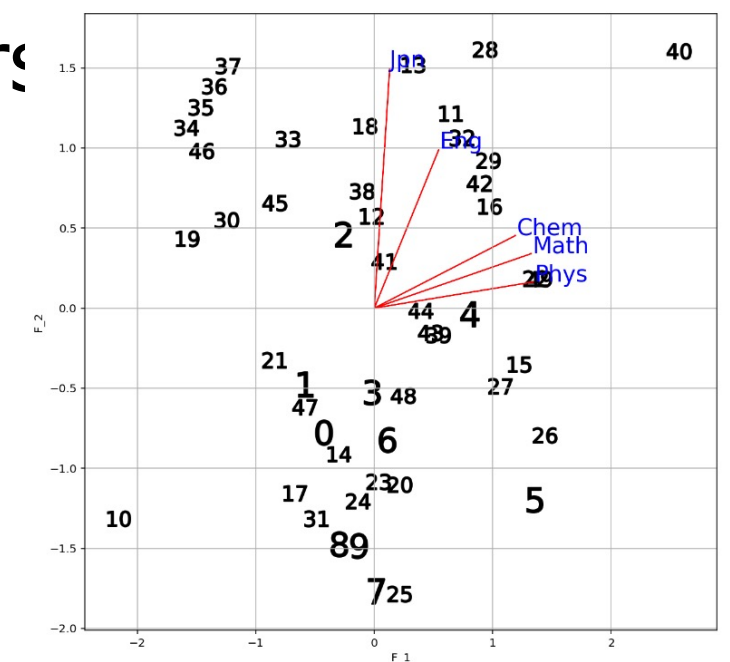


Mini Quiz 1

Summary of the analysis of fa_subjects5.ipynb

- Input: test score data for five subjects for 50 students
- From the scree plot, the appropriate number of common factors is determined to be [A].
- From the results of get_factor_variance(), about [B] % of the data can be explained by these common factors.
- In the biplot, the number of points is [C] and the number of arrows is [D].
- From [E], the meaning of each of potential common factors can be figured out.
- From [F], the characteristics of each student in terms of common factors can be understood.

	Factor1	Factor2
var	2.343354	1.574543
prop_var	0.468671	0.314909
cum_var	0.468671	0.783579



Ans. of Mini Quiz 1

Summary of the analysis of fa_subjects5.ipynb

- Input: test score data for five subjects for 50 students
- From the scree plot, the appropriate number of common factors is determined to be [A: 2].
- From the results of `get_factor_variance()`, about [B: 78.4] % of the data can be explained by these common factors.
- In the biplot, the number of points is [C: 50] and the number of arrows is [D: 5].
- From [E: the directions of arrows], the meaning of each of potential common factors can be figured out.
- From [F: the positions of points], the characteristics of each student in terms of common factors can be understood.

	Factor1	Factor2
var	2.343354	1.574543
prop_var	0.468671	0.314909
cum_var	0.468671	0.783579

