Research Questions/Hypotheses

Questions

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| --- | --- | --- |
|  | relational | causal |
| non-directional | Is the difference between the two students’ computer programming self-efficacy score in a pair and the performance of these two students in the CS I course related? |  |
| directional | Is two students’ performance in a pair and the difference between the two students’ computer programming self-efficacy score (DSE) in a pair inversely related, such that the performance of two students decreases in a pair as the difference between the two students’ computer programming self-efficacy score (DSE) increases? | Dose increased the difference between the two students’ computer programming self-efficacy score (DSE) in a pair lead to a decreased outcome of the performance. |

Hypotheses

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| --- | --- | --- |
|  | relational | causal |
| non-directional | I predict that in a pair the difference between the two students' computer programming self-efficacy and the performance of these two students in the CS I course are related. |  |
| directional | I predict that in a pair the difference between the two students' computer programming self-efficacy and the performance of these two students in the CS I course are inversely related, such that performance decrease as SDE increases | I predict that increased the difference between the two students’ computer programming self-efficacy score (DSE) in a pair lead to a decreased outcome of the performance. |

Needs/Objectives