```
 DATASET ACTIVATE DataSet1.
DATASET ACTIVATE DataSet1.

*Create simulation plan.
FILE HANDLE simplan_670093 /NAME=
    'C:\Users\mukis\AppData\Local\IBM\SPSS\Statistics\27\SimulationPlan_16.splan'.
SIMPLAN CREATE
 /CONTINGENCY MULTIWAY=NO
 /SIMINPUT INPUT=PRE_1(FORMAT=F,2) OUTPUT=YES TYPE=MANUAL(LOCK=NO SAVEASFITTED=YES)
    DISTRIBUTION=NORMAL(MEAN=69.3023044269253 STDDEV=6.84657401843504 )
 /SIMINPUT INPUT=RES_1(FORMAT=F,2) OUTPUT=YES TYPE=MANUAL(LOCK=YES)
    DISTRIBUTION=NORMAL(MEAN=-4.34114549863196e-16 STDDEV=5.51921978196072 )
 /AUTOFIT NCASES=ALL FIT=AD BINS=100
 /STOPCRITERIA MAXCASES=100000
 /MISSING CLASSMISSING=EXCLUDE
 /PLAN FILE=simplan_670093 DISPLAY=YES.
```

Simulation Plan

Notes

Output Created		09-SEP-2024 14:21:08
Comments		
Input	Data	C:\Users\mukis\OneDrive\Desktop\RUTH\Life Expectancy Data.csv
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1649

Notes

Syntax		SIMPLAN CREATE /CONTINGENCY MULTIWAY=NO /SIMINPUT INPUT=PRE_1 (FORMAT=F,2) OUTPUT=YES TYPE=MANUAL (LOCK=NO SAVEASFITTED=YES) DISTRIBUTION=NORMA L(MEAN=69. 3023044269253 STDDEV=6. 84657401843504) /SIMINPUT INPUT=RES_1 (FORMAT=F,2) OUTPUT=YES TYPE=MANUAL (LOCK=YES) DISTRIBUTION=NORMA L(MEAN=- 4.34114549863196e-16 STDDEV=5. 51921978196072) /AUTOFIT NCASES=ALL FIT=AD BINS=100 /STOPCRITERIA MAXCASES=100000 /MISSING CLASSMISSING=EXCLU DE /PLAN FILE=simplan_670093 DISPLAY=YES.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.04
Files Saved	Simulation Plan File	C: \Users\mukis\AppData\Loc al\IBM\SPSS\Statistics\27\ SimulationPlan_16.splan

Model Type: None

	Label	Simulation Role	Type	Measurement Level	Format	Filters Min	Filters Max
PRE_1		Input	Numeric	Scale	F,2	.	.
RES_1		Input	Numeric	Scale	F,2	.	.

Input Distributions

			Parameter Value
PRE_1	Normal	mean	69.302
		stddev	6.847
RES_1	Normal	mean	-4.341E-16
		stddev	5.519

Correlations

	PRE_1	RES_1
PRE_1	1.000	.000
RES_1	.000	1.000

Stopping Criteria

Maximum cases	100000

```
 *Run simulation plan.
DATASET DECLARE DataSet4.
SIMRUN
 /PLAN FILE=simplan_670093
 /CRITERIA  REPRESULTS=TRUE  SEED=629111597
 /PRINT ASSOCIATIONS=YES DESCRIPTIVES=YES PERCENTILES=NO
 /OUTFILE FILE=DataSet4.
```

Simulation Run

Notes

Output Created		09-SEP-2024 14:21:08
Comments		
Input	Data	C:\Users\mukis\OneDrive\Desktop\RUTH\Life Expectancy Data.csv
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1649
Syntax		SIMRUN /PLAN FILE=simplan_670093 /CRITERIA REPRESULTS=TRUE SEED=629111597 /PRINT ASSOCIATIONS=YES DESCRIPTIVES=YES PERCENTILES=NO /OUTFILE FILE=DataSet4.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.06
Files Saved	Simulated Cases File	DataSet4

Simulation Summary

Maximum cases	100000
Total simulated cases	100000

Simulation Plan File: C:\Users\mukis\AppData\Local\IBM\SPSS\Statistics\27\SimulationPlan_16.splan

Cases may be filtered because of either targets or inputs that are outside of the specified ranges. Filtered cases are not included in the simulated cases count.

Descriptive Statistics of Scale Inputs

	Mean	Std. Deviation	Minimum	Maximum
PRE_1	69.282	6.854	39.62	96.71
RES_1	-.039	5.512	-30.38	23.20

Correlations

	PRE_1	RES_1
PRE_1	1.000	-.005
RES_1	-.005	1.000

Correlations between simulated inputs may differ from correlations specified for those inputs in the simulation plan.

```
SAVE TRANSLATE OUTFILE='C:\Users\mukis\OneDrive\Desktop\SM_CW-QN2\CLEAN_PROCESSED_DATA.xl
sx'
  /TYPE=XLS
  /VERSION=12
  /MAP
  /FIELDNAMES VALUE=NAMES
  /CELLS=VALUES
  /REPLACE.

Data written to C:\Users\mukis\OneDrive\Desktop\SM_CW-QN2\CLEAN_PROCESSED_DATA.xlsx
24 variables and 1649 cases written to range: SPSS.
Variable: Country            Type: String   Width:  24
Variable: Year               Type: Number   Width:   4   Dec: 0
Variable: Status             Type: String   Width:  10
Variable: Lifeexpectancy     Type: Number   Width:   4   Dec: 1
Variable: AdultMortality     Type: Number   Width:   3   Dec: 0
Variable: infantdeaths       Type: Number   Width:   4   Dec: 0
Variable: Alcohol            Type: Number   Width:   5   Dec: 2
Variable: percentageexpenditure  Type: Number   Width:  13   Dec: 9
Variable: HepatitisB         Type: Number   Width:   2   Dec: 0
Variable: Measles            Type: Number   Width:   6   Dec: 0
Variable: BMI                Type: Number   Width:   4   Dec: 1
Variable: underfivedeaths    Type: Number   Width:   4   Dec: 0
Variable: Polio              Type: Number   Width:   2   Dec: 0
Variable: Totalexpenditure   Type: Number   Width:   5   Dec: 2
Variable: Diphtheria         Type: Number   Width:   2   Dec: 0
```

```
Variable: HIVAIDS           Type: Number   Width:   4   Dec: 1
Variable: GDP               Type: Number   Width:  12   Dec: 7
Variable: Population        Type: Number   Width:  11   Dec: 2
Variable: thinness119years  Type: Number   Width:   4   Dec: 1
Variable: thinness59years   Type: Number   Width:   4   Dec: 1
Variable: Incomecompositionofresources  Type: Number   Width:   5   Dec: 3
Variable: Schooling         Type: Number   Width:   4   Dec: 1
Variable: PRE_1             Type: Number   Width:  11   Dec: 5
Variable: RES_1             Type: Number   Width:  11   Dec: 5


DATASET ACTIVATE DataSet1.
DATASET CLOSE DataSet4.
DATASET ACTIVATE DataSet1.
DATASET CLOSE DataSet2.
```