MET MA 603: SAS Project Exam Help SAS Programming and https://powcoder.com Applications Add WeChat powcoder

Logical Statements

IF-THEN Statements

IF-THEN statements allow for statements to be executed conditionally. In other words, a statement may be executed for some observations, but not for others.

IF-THEN statements may be two parts and hold an action. The condition is a logical expression that is evaluated for each observation, and has a result that is either true or false. The condition uses characters such as =, <, >, <=, >=, ~= (not equal). The action is a statement that will only be executed when the condition is true.

ELSE Statement

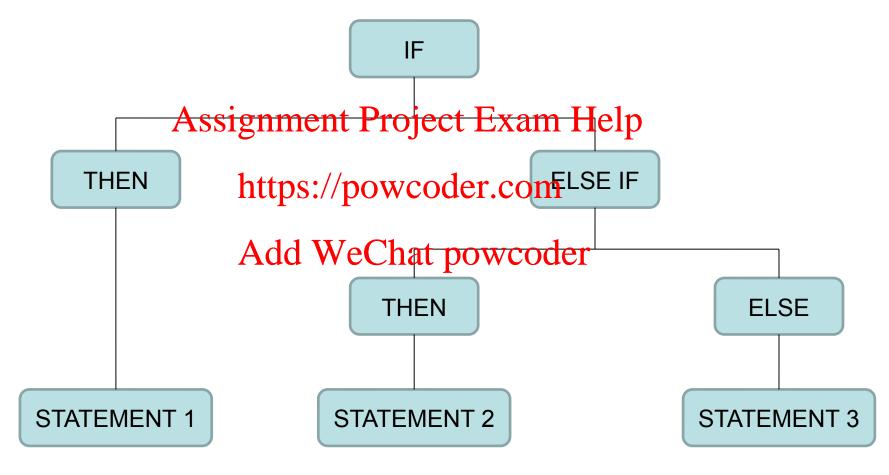
In the previous example, the action statement is either executed, or it is not. There are situations where one statement should be executed if the condition is true, and a different statement should be executed if the pondition is false. The **ELSE statement** allows for a statement to be executed when the the condition is false.

ELSE IF

The previous example used one condition. There are situations where more than one condition needs to be evaluated. ELSE IF allows for additional conditions to be tested. Note that ign Flene Proportionaris prolipevaluated when all preceding IF and ELSE IF conditions are false. Once a true conditions of punchables proportion is executed and the statement is finished.

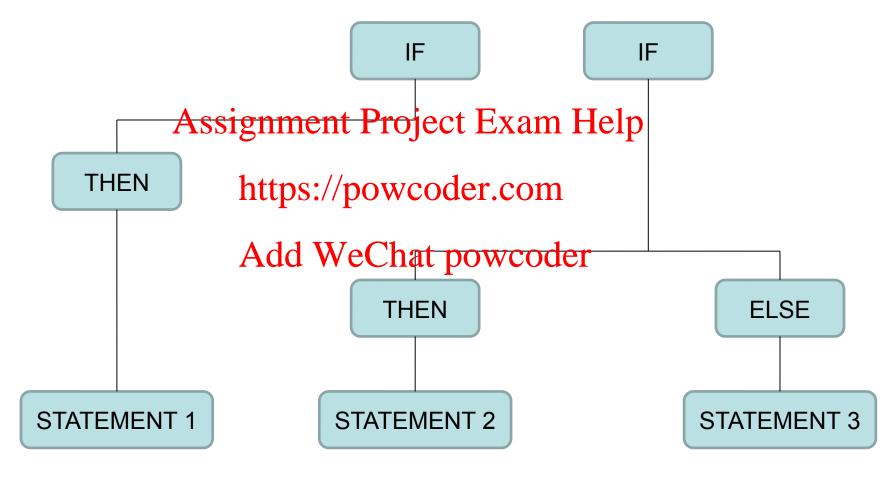
Add WeChat powcoder

Graphical Representation of IF-ELSE IF-ELSE Structure



Only one of the Statements will be executed.

Graphical Representation of Parallel IF Statements



Statements 1 might be executed. One of Statements 2 and 3 will be executed.

Practice

Use the scores1.sas7bdat dataset.

Create a variable called Grade based on the following mapping:

Assignment Project Exam Help

Score Range	Grade	
911905://1	owcode	er.com
80-89	В	
70-79	Chata	ovvoodor
66 gold W	6CHat p	owcoder
0-59	F	

Logical Operators

AND, **OR**, **IN** and **NOT IN** are logical operators that allow for more sophisticated conditions to be tested.

```
Example of the AND logical operator:
```

```
data oAssignment Project Exam Help
set mydata1.occupancy;
if reshtepss/pawcoder=com then Lonely Person
= "Yes";

Add WeChat powcoder
else Lonely Person = "No";
run ;
```

Example of the OR logical operator:

Logical Operators (continued)

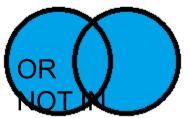
Example of the IN logical operator:

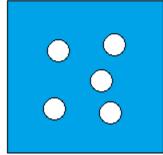
Example of the NOT IN logical operator:

Graphical Representation of Logical Operators



Add WeChat powcoder





DO-END Statements

Sometimes more than once action statement needs to be executed when a condition is met. The **DO** and **END** statements indicate to SAS that all statements inside this structure are to be executed when the sometimen is met.

```
data occupancy;
set https://datpowcoder.jcom
length DogInd $2;
if dogs Adder Vooridat "powcoder
else do;

DogInd = "0";

DogBreed = "No Dogs";
end;
run;
```

Practice

Use the policy_info.sas7bdat dataset.

Create a variable called RoofQuality based on the following

mapping:

Roof Material M	1apping	
Rof Materialn me	Roof Quality	ect Exam Help
asphalt	Normal	oot Exam Help
built up/tar or gravel	Poor	
clay tile 1	Good	oder.com
composition	/dopalOWC	oder.com
concrete tile	Good	
other	Normal	
slate ACC	WeCh2	it powcoder
spanish tile	Good	
tin/membrane	Normal	
wood shake	Poor	
wood shingles	Poor	

(see the next slide for the rest of the problem)

Practice (continued)

Based on each policy's characteristics, assign the Roof and Alarm factors based on the following criteria:

	RoofQuality	y Factor			
Roof Quality	กประก	1+H091	↑ ₩%	Exam	Heln
Poor	1.10	1.00	11.05		riorp
Normal	1.00	1.00	1.00		
Good 1	0.90	1.00	0.90	er.com	
П	ups./	pow	veou	er.com	

Alarm Factor		
Burglar Alarm	Fre Alan V e	Chartorpo
Central	Central	0.85
Central	Local	0.90
Central	None	0.95
Local	Central	0.90
Local	Local	0.97
Local	None	0.99
None	Central	0.95
None	Local	0.99
None	None	1.00

Your result should match the discount.sas7bdat dataset.

Readings

Textbook sections 3.5, 3.6

Assignment Project Exam Help

https://powcoder.com

Add WeChat powcoder