Name:	Date:	

√E×EXP If statement

In this Lesson: You learn about what the *if* statement in VEXcode EXP is, and how it can be used in a project to make your robot make a decision to accomplish a task.

Definition(s):

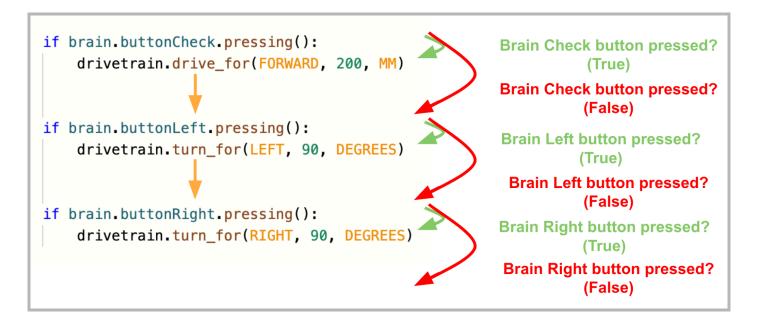
 If: a control statement that runs the commands indented beneath it when the Boolean condition is reported as True

Note: To learn more about the **if** statement, you can access the Help in VEXcode EXP.



Notes:

- The if statement is used to make your robot make a decision. You can use multiple If
 statements in the same project (as shown in this example based on the project in the video).
 - The *if* statement uses Boolean conditions, which report as True or False.
 - The *if* statement will run the commands indented beneath it when the Boolean condition is reported as True.
 - If the Boolean condition is reported as False, the *if* statement will be 'skipped' in the project.
 - When you have multiple *if* statements in a project, the condition that is reported as
 True will determine which *if* statement will run.



• The *if* statement will check a condition only once (as shown above). Add a *while* loop with the condition True or a *for* loop to check conditions repeatedly (as shown below).

```
while True:
    if brain.buttonCheck.pressing():
        drivetrain.drive_for(FORWARD, 200, MM)
Repeats while True
```