



## Exercise Six

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This exercise will give you practice in creating rudimentary conditions and switches.

6.1 Create a module with the following variables ...

<b>Name</b>	<b>Datatype</b>	<b>Value</b>
person_name	String	Fred Jones
person_sex	char	M
person_age	int	53

Output a suitable message. Save as ex6\_1.java

**The following exercises can be written all at once or as separate exercise modules ...**

6.2 Using ex6\_1.java, test whether the persons\_name has a value. Save as ex6\_2.java

*Name is not null*

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6.3 Using ex6\_1.java, test whether the persons\_sex is not female. Save as ex6\_3.java

*Person is Male*

6.4 Using ex6\_1.java, test whether the persons\_age is between 18 and 65.  
Save as ex6\_4.java.

*Person's age is between 18 and 65*

6.5 Using ex6\_1.java, create another boolean variable called person\_status set it to true.  
Test whether the value in person\_status is false. Save as ex6\_5.java

*Person is true*

6.6 Using ex6\_1.java, test the person\_sex variable for an uppercase value.  
Save as ex6\_6.java

*Sex is Upper Case*

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6.7 Create a new module, within it create a char variable called 'dayvalue', initialise its value to 0. Using Switch, decide which day it is by casing dayvalue, print out an appropriate message, use 0 for Sunday etc ... test the process by changing the value to another day in the week. Save as ex6\_7.java

*Day is Sunday*

**The following exercise should only be attempted if there is sufficient time or if you are ahead of other delegates in the course, before proceeding please make sure that the other exercises in this section have been completed fully and correctly.**

6.8 Using ex6\_7.java, modify it by adding another variable called 'monthvalue', initialise its value to 0. Modify the current switch test to nest the testing so that once the day has been established that it will then work out what month it is as well, this will mean repeating the nesting code for the month for each day or you can make the tests seperately and combine the results using two switches ... Save as ex6\_8.java

*The day is Sunday and the month is January*