Student	Laurice Keogh	60

Part 1

	Available	Marks
Q1: Calculate the first 200 Pell numbers and place them in a dataframe `pelldata` that has three columns. The first column should contain the index *n*, the second column should contain the Fibonacci number F_n, and the third column should contain the Pell number P_n. Give the three columns appropriate column names for ease of use in later tasks.	20	14
Q2: Calculate this approximation for its first 200 terms and add this as a fourth column in the `pelldata` dataframe. Give the column a suitable column name.	10	10
Q3: For each value of *n* calculate the difference between the approximation to $\sqrt{2}$ and the value for $\sqrt{2}$ as calculated using R's `sqrt()` function .Add this as a column to the `pelldata` dataframe that shows the difference to five decimal places. Give the column a suitable column name.	10	7
Q4: For each value of *n* calculate the accuracy of the approximation as the number of decimal places to which the approximation is correct. Add this as a column to the `pelldata` dataframe and give it a suitable column name.	15	6
Commenting and use of white space	5	1
	TOTAL	40

Comments
Generally good commenting and use of white space. Try to cut very long comments into multiple lines so you don't get comments forcing the reader to scroll sideways to read them.
Q1: does the job but would be more elegant to do everything in the same loop.
Q2 could be done with a simple – function.
Q3: good.
Q4: You haven't got the accuracy right although converting everything to strings is a good starting point.

Part 2

	Available	Marks
Explain how your code works for each question (including flow charts) and explain how you tested your code (include examples of the code and data used).	30	15
A reflection on what you found challenging, what you learned, and what you would do differently next time.	10	5
	TOTAL	20

Comments

Be careful with diagrams. The blue fill for the shapes of the flow chart should be removed. You haven't used the correct shapes for some of the elements, particularly where a choice has to be made. The choice itself should be a diamond, not the two possible outcomes.

If you're going to use a code snippet to explain something then take a screenshot of the code that you're discussing and insert that into the documentation. Your use of AI was sensible and well noted.