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PyCharm, an integrated development environment (IDE) for Python, significantly enhanced my experience while completing the IT 140 Module Two Assignment, which involved writing a program to prompt for a user’s name and age and calculate their birth year. One standout feature is “smart code completion”, which suggests relevant code elements as I type. For example, when entering `pri`, PyCharm suggested `print`, saving time and preventing typos. This was particularly helpful for ensuring I used `input()` and f strings correctly. For beginners, autocomplete not only speeds up coding but also reinforces Python syntax by offering context appropriate options, making it easier to write the program without errors.

Another invaluable feature is “real time code error detection”, which highlights issues like syntax errors or undefined variables with red underlines. While working on the assignment, PyCharm flagged a missing `int()` conversion for the age input, prompting me to fix it before running the program. This immediate feedback ensured my code met the functionality requirement by producing correct results, such as “Hello Amanda! You were born in 2005.”