Here are the correct answers for each question based on Python programming fundamentals:

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### \*\*Question 1\*\*

\*\*When you want to write a program, what application should you open?\*\*

✅ \*\*VS Code\*\*

> Visual Studio Code is the code editor where you'll write and edit Python programs.

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### \*\*Question 2\*\*

\*\*If a person’s favorite book is stored in a variable `book`, how would you display the name of the book on the screen?\*\*

✅ \*\*print(book)\*\*

> This correctly calls the `print()` function and passes the variable `book` to it.

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### \*\*Question 3\*\*

\*\*What is the difference between single quotes (‘) and double quotes (“) in Python?\*\*

✅ \*\*No difference.\*\*

> Python treats `'text'` and `"text"` the same. The choice is mostly stylistic or for handling apostrophes inside strings.

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### \*\*Question 4\*\*

\*\*Which character will cause the python interpreter to treat the rest of the line as a comment?\*\*

✅ \*\*#\*\*

> The `#` symbol is used for comments in Python.

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### \*\*Question 5\*\*

\*\*How do you ask for and store a person’s major in a variable?\*\*

✅ \*\*major = input(“What is your major?”)\*\*

> This prompts the user and stores their response in the variable `major`.

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### \*\*Question 6\*\*

\*\*Which of the following Python operators has the highest order of precedence?\*\*

✅ \*\*( )\*\*

> Parentheses `()` have the highest precedence, followed by exponentiation `\*\*`.

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### \*\*Question 7\*\*

\*\*How do you call a function named `my\_function` in Python?\*\*

✅ \*\*my\\_function()\*\*

> This is the correct syntax for calling a function in Python.

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### \*\*Question 8\*\*

\*\*What happens if you call a function without providing the required arguments?\*\*

✅ \*\*An error will occur indicating missing arguments.\*\*

> Python will raise a `TypeError` if required arguments are missing.

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### \*\*Question 9\*\*

\*\*What is the correct way to call a function named `lighten` defined in a module named `imageprocessing`?\*\*

✅ \*\*imageprocessing.lighten(10)\*\*

> This uses dot notation to call a function from an imported module.

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### \*\*Question 10\*\*

\*\*According to the reading, which of the following function types are available in Python?\*\*

✅ \*\*Standard Library\*\*

✅ \*\*Built-in\*\*

✅ \*\*User-defined\*\*

✅ \*\*Third-party\*\*

> Python supports all these function types:

\* \*\*Built-in\*\*: e.g., `print()`, `len()`

\* \*\*Standard Library\*\*: e.g., `math.sqrt()`

\* \*\*User-defined\*\*: functions you create

\* \*\*Third-party\*\*: functions from external libraries like NumPy or requests

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Let me know if you'd like these in flashcard format or need a quiz sheet!

**Question 1**

**Does the program you wrote run without errors and fulfill all of the requirements your instructor completed in the code-along video?**  
✅ **Yes**

**Question 2**

**What statement will cause the number in the variable total to be printed with exactly two decimal places?**  
✅ **print(f"Amount Due {total:.2f}")**

.2f formats the number as a float with 2 decimal places.

**Question 3**

**Which statement would be best to have the user input a price?**  
✅ **price = float(input("What is the price? "))**

float() ensures decimal input is properly handled as a number.

**Question 4**

**If day\_of\_week = current\_time.weekday() returns 5, what day is it?**  
✅ **Saturday**

weekday() returns:

* 0 = Monday
* 1 = Tuesday
* 2 = Wednesday
* 3 = Thursday
* 4 = Friday
* 5 = **Saturday**
* 6 = Sunday

**Question 5**

**What will be printed by this code?**

python

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a = 1.556

b = round(a, 2)

print(b)

✅ **1.56**

round(1.556, 2) rounds to 2 decimal places.

**Question 6**

**Which built-in library includes support for working with dates?**  
✅ **datetime**