# Assessment Answer Key

1. Q1. What is the output of the following Python code: `print([x\*\*2 for x in range(5)])`?

* Skill: Python Programming
* Answer: [0, 1, 4, 9, 16]

1. Q2. Write a SQL query to find the total number of orders from a table named 'Orders' where the status is 'Completed'.

* Skill: SQL Database Management
* Answer: SELECT COUNT(\*) FROM Orders WHERE status = 'Completed';

1. Q3. What is the purpose of using a pivot table in data analysis?

* Skill: Data Analysis
* Answer: A pivot table is used to summarize and analyze data, allowing users to reorganize and aggregate data for better insights.

1. Q4. Explain the difference between supervised and unsupervised learning in machine learning.

* Skill: Machine Learning
* Answer: Supervised learning uses labeled data to train models, while unsupervised learning finds patterns in unlabeled data.

1. Q5. How would you explain a complex technical concept to a non-technical stakeholder?

* Skill: Communication
* Answer: I would use simple language, analogies, and visual aids to break down the concept into understandable parts.

1. Q6. Describe a time when you faced a significant challenge in a project and how you resolved it.

* Skill: Problem Solving
* Answer: I encountered a major delay due to resource unavailability. I reassessed the project timeline, communicated with stakeholders, and reallocated resources to meet the deadline.

1. Q7. What are the key components of effective project management?

* Skill: Project Management
* Answer: Key components include defining project scope, planning, resource allocation, risk management, and communication with stakeholders.