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## Lab 6: Domain-Specific Applications – Educational Quiz Generation

### Objective:

Leverage ChatGPT's capabilities to generate educational quizzes for student learning.

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### Activity Chosen:

☒ Educational Quiz Generation

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### Prompt Design:

We designed the following prompt to instruct ChatGPT to generate a subject-specific quiz:

**Prompt:**

“Generate a 5-question multiple-choice quiz on the topic of Artificial Intelligence basics. Each question should have 4 options and indicate the correct answer.”

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### ChatGPT Output:

#### Quiz: Basics of Artificial Intelligence

1. **What does AI stand for?**
  - a) Automated Interface
  - b) Artificial Intelligence ☒
  - c) Advanced Integration
  - d) Applied Informatics
  
2. **Which of the following is a common application of AI?**
  - a) Word processing
  - b) Image captioning ☒
  - c) File compression
  - d) Disk formatting

3. **Who is considered the father of AI?**
    - a) Alan Turing
    - b) John McCarthy ☒
    - c) Elon Musk
    - d) Bill Gates
  
  4. **Which technique is used for AI learning through reward and punishment?**
    - a) Supervised learning
    - b) Clustering
    - c) Reinforcement learning ☒
    - d) Regression
  
  5. **Which language is commonly used for AI programming?**
    - a) HTML
    - b) Python ☒
    - c) CSS
    - d) PHP
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### Output Evaluation:

Criteria	Evaluation
Relevance	<input checked="" type="checkbox"/> All questions are on AI basics and aligned with the prompt
Clarity	<input checked="" type="checkbox"/> Questions and options are clearly worded
Accuracy	<input checked="" type="checkbox"/> Correct answers are appropriate and factually accurate
Difficulty Balance	<input checked="" type="checkbox"/> Mix of simple and slightly challenging questions
Reusability	<input checked="" type="checkbox"/> Format is easily exportable into quiz apps or classroom worksheets

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### Conclusion:

ChatGPT performed well in generating a structured and accurate quiz on a technical subject. With the right prompt design, it can be a valuable tool for **automated educational content creation**, especially for teachers, trainers, or self-learners.

