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

### **Objective:**

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

### **Activity Chosen:**

✅ **Educational Quiz Generation**

### **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.”

### **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

### **Output Evaluation:**

| **Criteria** | **Evaluation** |
| --- | --- |
| Relevance | ✅ All questions are on AI basics and aligned with the prompt |
| Clarity | ✅ Questions and options are clearly worded |
| Accuracy | ✅ Correct answers are appropriate and factually accurate |
| Difficulty Balance | ✅ Mix of simple and slightly challenging questions |
| Reusability | ✅ Format is easily exportable into quiz apps or classroom worksheets |

### **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.