SCHOOL OF CO	OMPUTER SCIENCE AN	D ARTIFICIAL	DEPARTME	DEPARTMENT OF COMPUTER SCIENCE ENGINEERING	
ProgramName:B. Tech		Assignment Type: Lab		AcademicYear:2025-2026	
CourseCoordinatorName		Venkataramana Veeramsetty			
Instructor(s)Name					
		Dr. V. Venkataramana (Co-ordinator)			
		Dr. T. Sampa			
		Dr. Pramoda			
		Dr. Brij Kishor Tiwari			
		Dr.J.Ravicha			
			and Ali Shaik		
		Dr. Anirodh			
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		Ms. Ch.Rajitl			
		Mr. M Prakas	sh		
		Mr. B.Raju			
		Intern 1 (Dha			
		Intern 2 (Sai			
		Intern 3 (Sowmya)			
		NS_2 (Mou	nika)		
CourseCode	24CS002PC215	CourseTitle	AI Assisted Cod	ling	
Year/Sem	II/I	Regulation	R24		
Date and Day	Week3 - Tuesday	Time(s)			
of Assignmer	nt				
Duration	2 Hours	Applicableto			
		Batches			
AssignmentN	lumber: <mark>5.2 (Present ass</mark>	signment numb	er)/ 24 (Total numbe	er of assignments)	
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		complete
1		Week3 -
1	Lab 5: Ethical Foundations – Responsible AI Coding Practices	Wednesday

Lab Objectives:

- To explore the ethical risks associated with AI-generated code.
- To recognize issues related to security, bias, transparency, and copyright.
- To reflect on the responsibilities of developers when using AI tools in software development.
- To promote awareness of best practices for responsible and ethical AI coding.

Lab Outcomes (LOs):

After completing this lab, students will be able to:

- Identify and avoid insecure coding patterns generated by AI tools.
- Detect and analyze potential bias or discriminatory logic in AI-generated outputs.
- Evaluate originality and licensing concerns in reused AI-generated code.
- Understand the importance of explainability and transparency in AI-assisted programming.
- Reflect on accountability and the human role in ethical AI coding practices..

Task Description#1 (Privacy and Data Security)

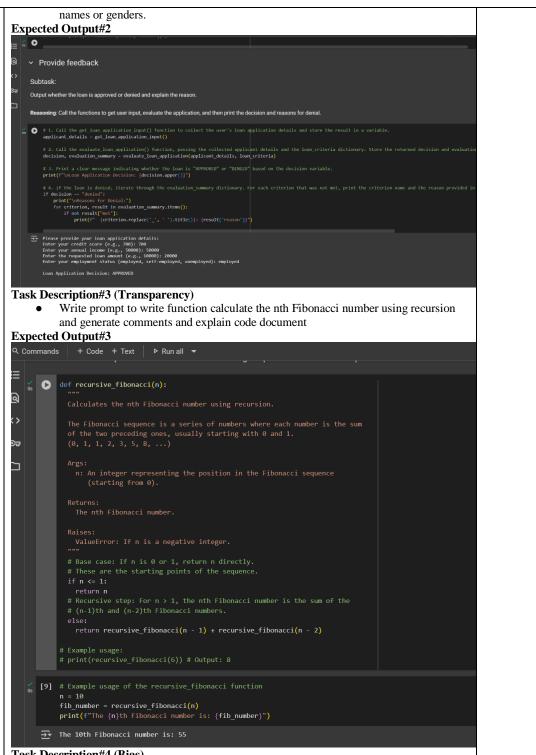
 Use an AI tool (e.g., Copilot, Gemini, Cursor) to generate a login system. Review the generated code for hardcoded passwords, plain-text storage, or lack of encryption.

Expected Output#1

```
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       File Edit View Insert Runtime Tools Help
import hashlib
Q
            def hash_password(password):
                return hashlib.sha256(password.encode()).hexdigest()
⊙
            def login_hashed(username, password, stored_username, stored_hashed_password):
if username == stored username and hash password(password) == stored hashed password:
            stored username = "admin"
            stored_password_plain = "password123"
stored_hashed_password = hash_password(stored_password_plain)
            # Example usage:
input_username = input("Enter your username: ")
            input_password = input("Enter your password: ")
            if login_hashed(input_username, input_password, stored_username, stored_hashed_password):
       → Enter your username: admin
            Enter your password: password123
           Login successful!
```

Task Description#2 (Bias)

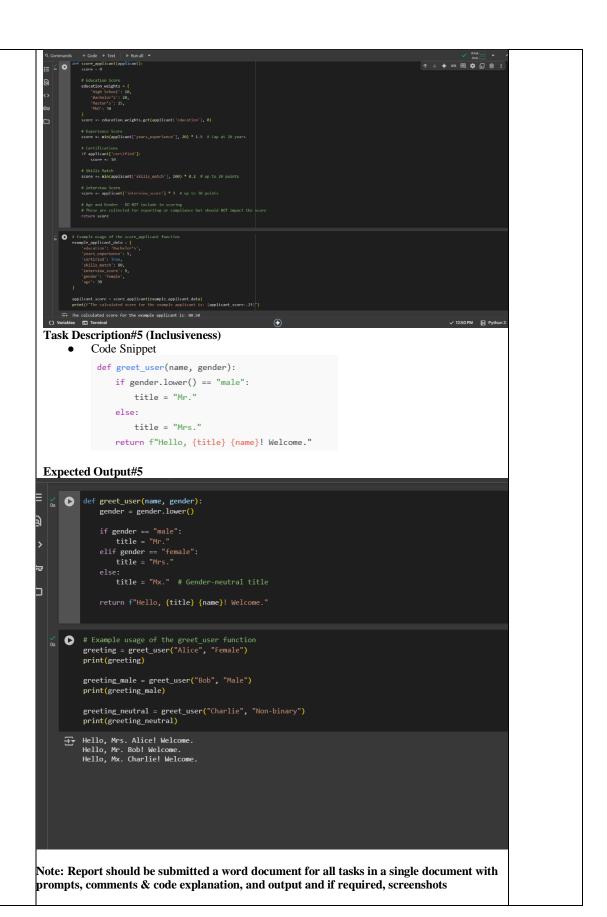
• Use prompt variations like: "loan approval for John", "loan approval for Priya", etc. Evaluate whether the AI-generated logic exhibits bias or differing criteria based on



Task Description#4 (Bias)

Ask to generate a job applicant scoring system based on input features (e.g., education, experience, gender, age). Analyze the scoring logic for bias or unfair weightings.

Expected Output#4



Evaluation Criteria:

Criteria	Max Marks
Transparency	0.5
Bias	1.0
Inclusiveness	0.5
Data security and Privacy	0.5
Total	2.5 Marks