2403A53043 MANASA ACHINA 24BTCAICYB02

SCHOOL OF CO	HOOL OF COMPUTER SCIENCE AND ARTIFICIAL DEPARTMENT OF COMPUTER SCIE TELLIGENCE ENGINEERING			
ProgramName: <mark>B. Tech</mark>		Assignr	nent Type: Lab	AcademicYear:2025-2026
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		NS_2 (Mou		
CourseCode	24CS002PC215	CourseTitle	AI Assisted Cod	ing
Year/Sem	II/I	Regulation	R24	
Date and Day of Assignment		Time(s)		
Duration	2 Hours	Applicableto Batches		
AssignmentN	umber: <mark>5.2</mark> (Present ass	i <mark>gnment numb</mark>	er)/ 24 (Total numbe	r of assignments)
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Q.No.	Question			Expected

Q.No.	Question	ExpectedTi me to complete
1	Lab 5: Ethical Foundations – Responsible AI Coding Practices Lab Objectives:	Week3 - Wednesday
	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.

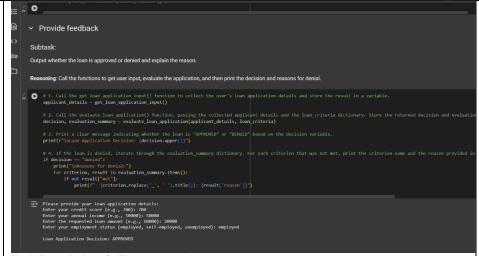
Expected Output#1

```
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       File Edit View Insert Runtime Tools Help
       import hashlib
Q
            def hash_password(password):
                Hashes a password using SHA-256.
                return hashlib.sha256(password.encode()).hexdigest()
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             def login_hashed(username, password, stored_username, stored_hashed_password):
if username == stored_username and hash_password(password) == stored_hashed_password:
            # stored hashed password from a database or secure storage
             # For this example, we'll hardcode them (but the password is hashed).
            stored_username =
            stored_password_plain = "password123"
stored_hashed_password = hash_password(stored_password_plain)
            input_password = input("Enter your password: ")
            if login_hashed(input_username, input_password, stored_username, stored_hashed_password):
               print("Login successful!")
       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 names or genders.

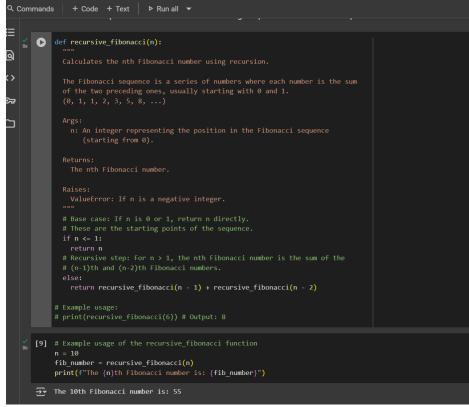
Expected Output#2



Task Description#3 (Transparency)

 Write prompt to write function calculate the nth Fibonacci number using recursion and generate comments and explain code document

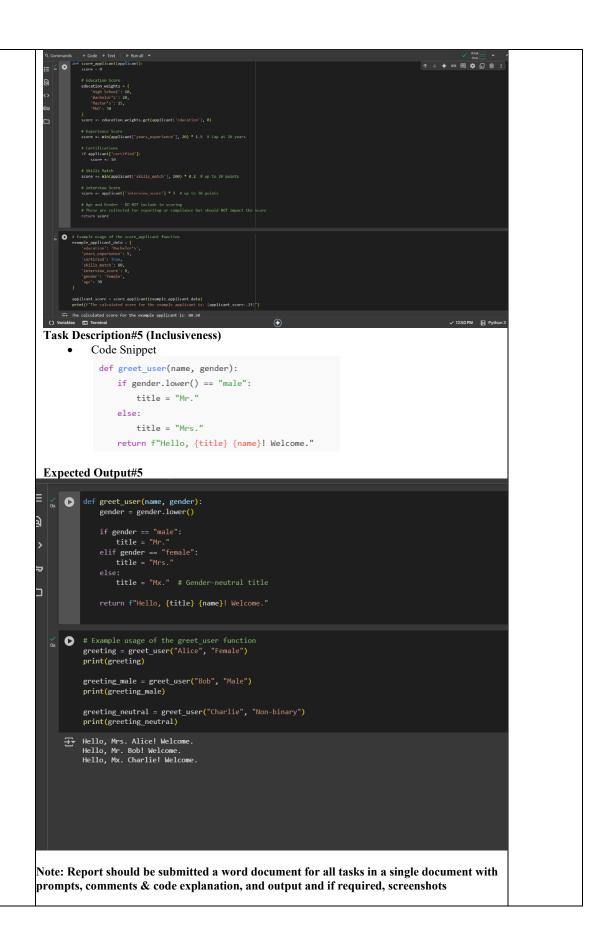
Expected Output#3



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