CHOOL OF COMPUTER SCIENCE AND NTELLIGENCE		ARTIFICIAL	DEPARTME	ENT OF COMPUTER SCIENCE ENGINEERING	
ProgramName:B. Tech		Assignment Type: Lab		AcademicYear:2025-2026	
CourseCoo	ordina	torName	Venkataramana	a Veeramsetty	
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			NS_2 ( Mour	nika)	
CourseCod	le	24CS002PC215	CourseTitle	AI Assisted Cod	ding
Year/Sem		II/I	Regulation	R24	
Date and I of Assignm		Week3 - Tuesday	Time(s)		
Duration		2 Hours	Applicableto Batches		
Assignmer	ntNum	_  n <b>ber:<mark>5.2(</mark>Present ass</b>	ı <mark>ignment numb</mark> i	er)/ <b>24</b> (Total numbo	er of assignments)
Q.No.	Que	estion			Expected
					me
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1	Lab 5: Ethical Foundations – Responsible AI Coding Practices	Week3 -
1	Lab Objectives:	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.

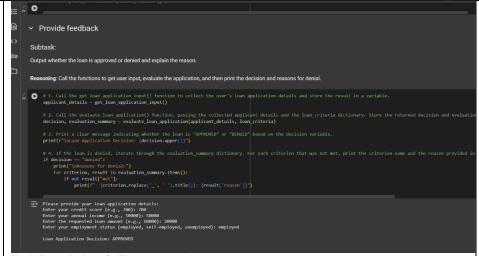
## **Expected Output#1**

```
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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()
ರಾ
             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.

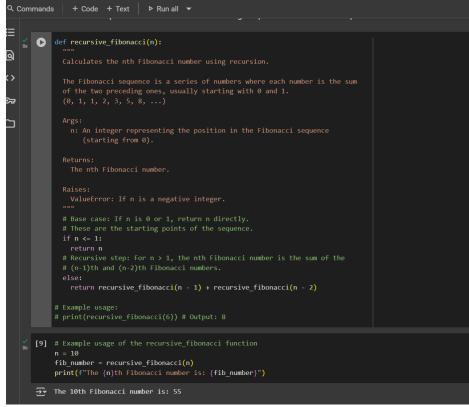
## Expected Output#2



# Task Description#3 (Transparency)

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

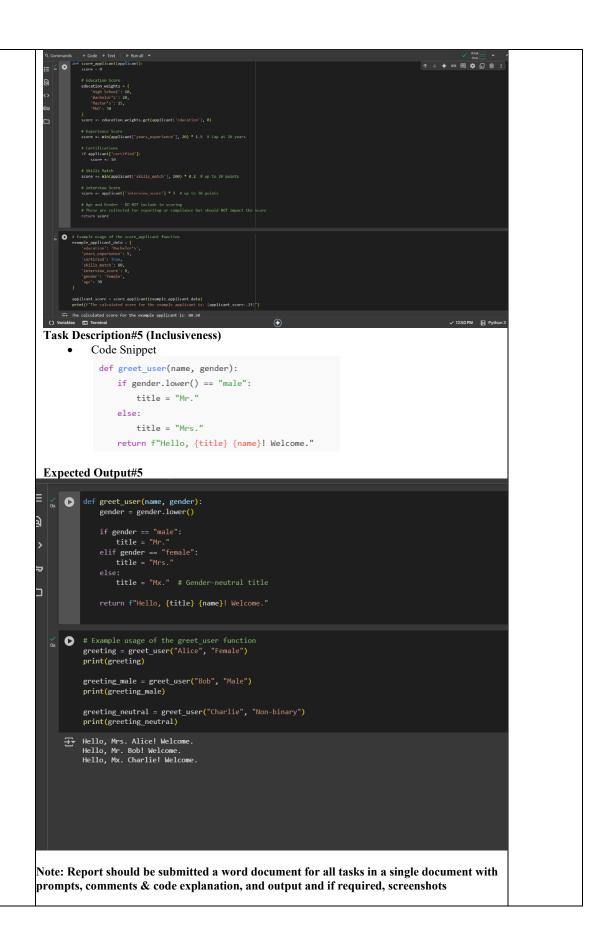
#### Expected Output#3



### 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**



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