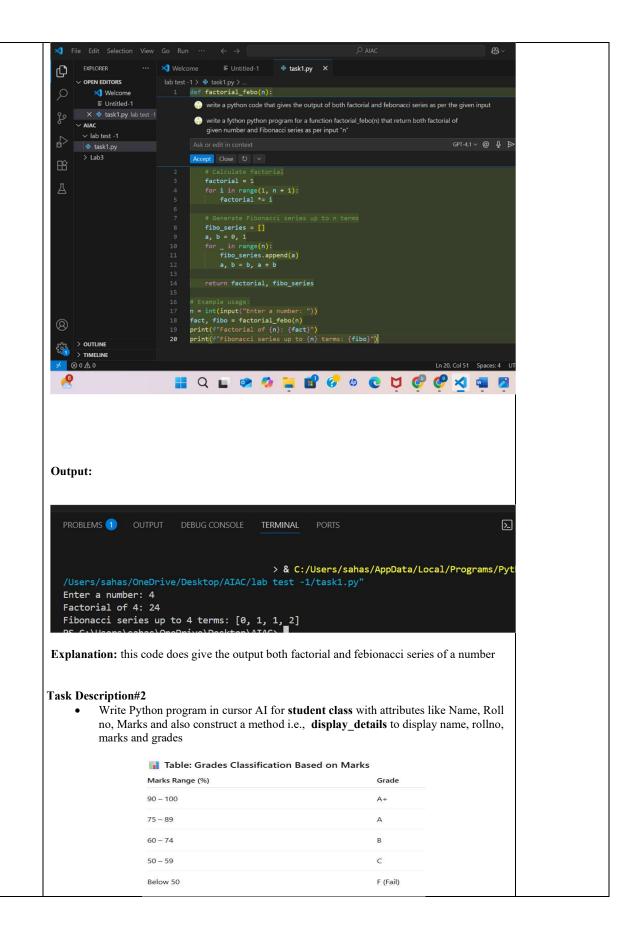
SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE			DEPARTMENT OF COMPUTER SCIENCE ENGINEERING		
ProgramName:B. Tech		SET-B		AcademicYear:2025-2026	
Roll No.					
Instructor(s)Name		 Dr. Venkataramana Dr. Ch. Sridhar Mr. Kundan Kumar 			
CourseCode	24CS002PC215	CourseTitle	AI Assisted Codi	ing	
Year/Sem	II/I	Regulation	R24		
Date and Day of Assignment	22.08.2025	Time(s)	01.00PM To 03.0	00PM	
Duration	2 Hours	Applicableto Batches	24BTCAIAIB09	, 24BTCAIAIB10	
Lab Test :1(Present test number)/4(Total number of tests)					

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Q.No.	Question	ExpectedTime to complete
	 Task Description#1 Write python program for a function factorial_febo(n) that return both factorial of given number and Fibonacci series as per input "n" 	
1	Expected Output#1 • factorial_febo(n) and output	22.08.2025
	<pre>prompt : write a python program for a function factorial_febo(n) that return both factorial of</pre>	03.00PM
	given number and Fibonacci series as per input "n" Code:	



Expected Output#2

- Student Class and Display Details
- Prompt: write a pyhton code for student class with attributes like
 Name, Rollno, Marks and also construct a method i.e., display_details
 to display name, rollno,marks and grades as follows 90 100 → A+,
 75 89 → A,60 74 → B,50 59 → C,Below 50 → F (Fail)

Code:

```
de task2.py ×
                                e task2.py > ..
                                           class Student:
                                                lass Student:
    def __init__(self, name, roll_no, marks):
        self.name = name
        self.roll_no = roll_no
        self.marks = marks
        self.grade = self.calculate_grade()
  task2.py
                                                def calculate_grade(self):
    if 90 <= self.marks <= 100:
        return "A"</pre>
                                                        return "B"
elif 60 <= self.marks < 75:
                                                        return "B"

elif 50 <= self.marks < 60:
                                                 def display_details(self):
    print(f"Name: {self.name}")
    print(f"Roll No: {self.roll_no}")
    print(f"Marks: {self.marks}")
    print(f"Grade: {self.grade}")
                                             # Example usage:
if __name__ == "__main__":
    name = input("Enter student name: ")
    roll_no = input("Enter roll number: ")
                                       ■ Q ■ Ø 📮 🖆 🚱 Ø C 💆 🚱 🗗 🖼 🛭
                                                                 roll_no = input("Enter roll number: ")
                                                                marks = float(input("Enter marks: "))
                                                                student = Student(name, roll_no, marks)
                                                                 student.display_details()
Output:
```

```
Problems Output Debug Console Terminal Ports

PS C:\Users\sahas\OneDrive\Desktop\AIAC\lab test -1> & C:/Users/sahas/AppData/Local/Programs/Pyth:/Users/sahas/OneDrive/Desktop/AIAC/lab test -1/task2.py"

Enter student name: sahasra
Enter roll number: 23
Enter marks: 67

Name: sahasra
Roll No: 23

Marks: 67.0

Grade: B
```

Explanation: this code is about student marks and grade of the student and details of the student such as name, roll no.

Note: Report should be submitted a word document for all tasks in a single document with prompts, comments & code explanation, and output screenshots

Evaluation Criteria:

Criteria	Max Marks
Factorial Function (Task#1)	5
Sorting Function (Task#2)	5
Viva	5
Total	15 Marks