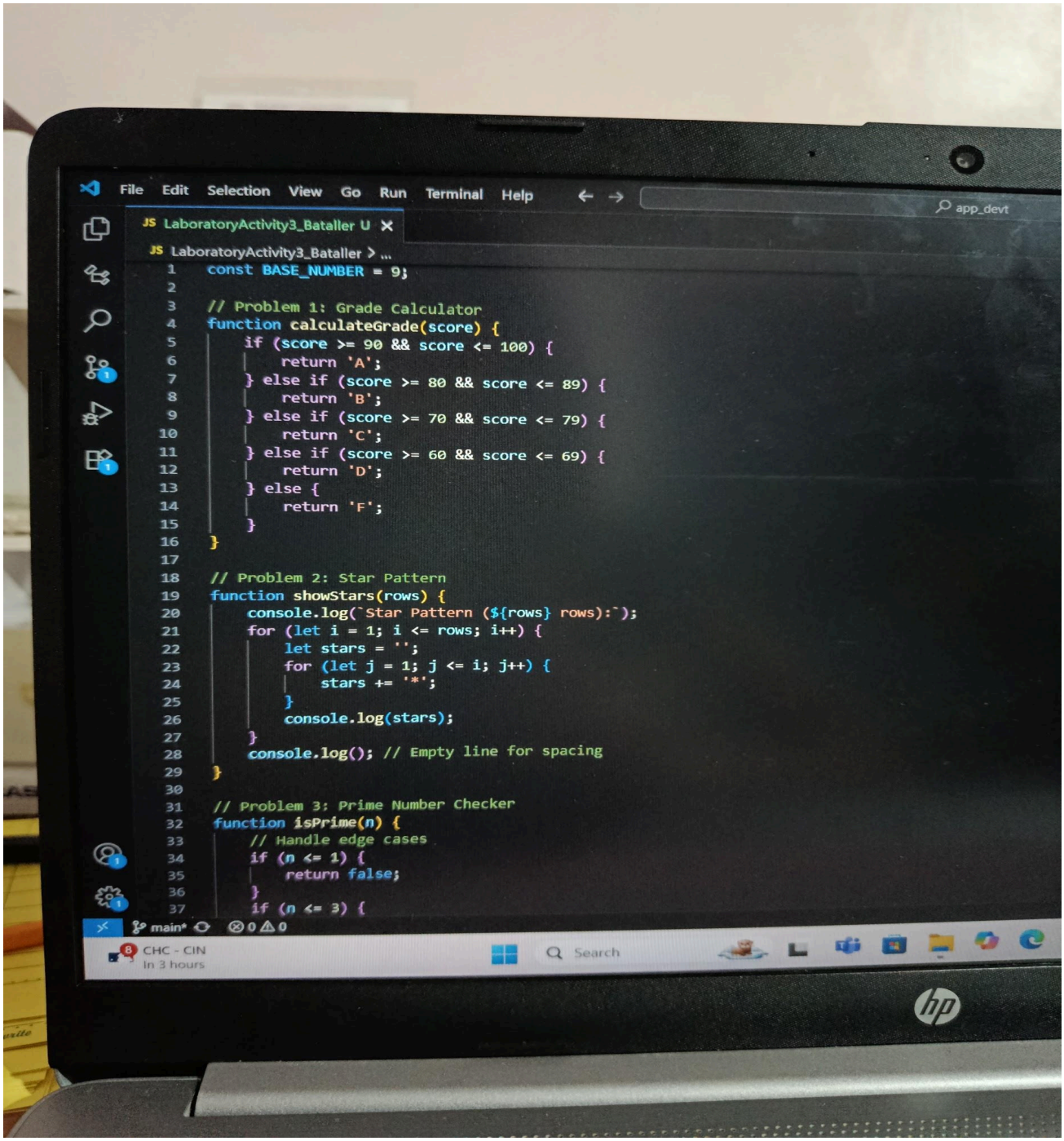
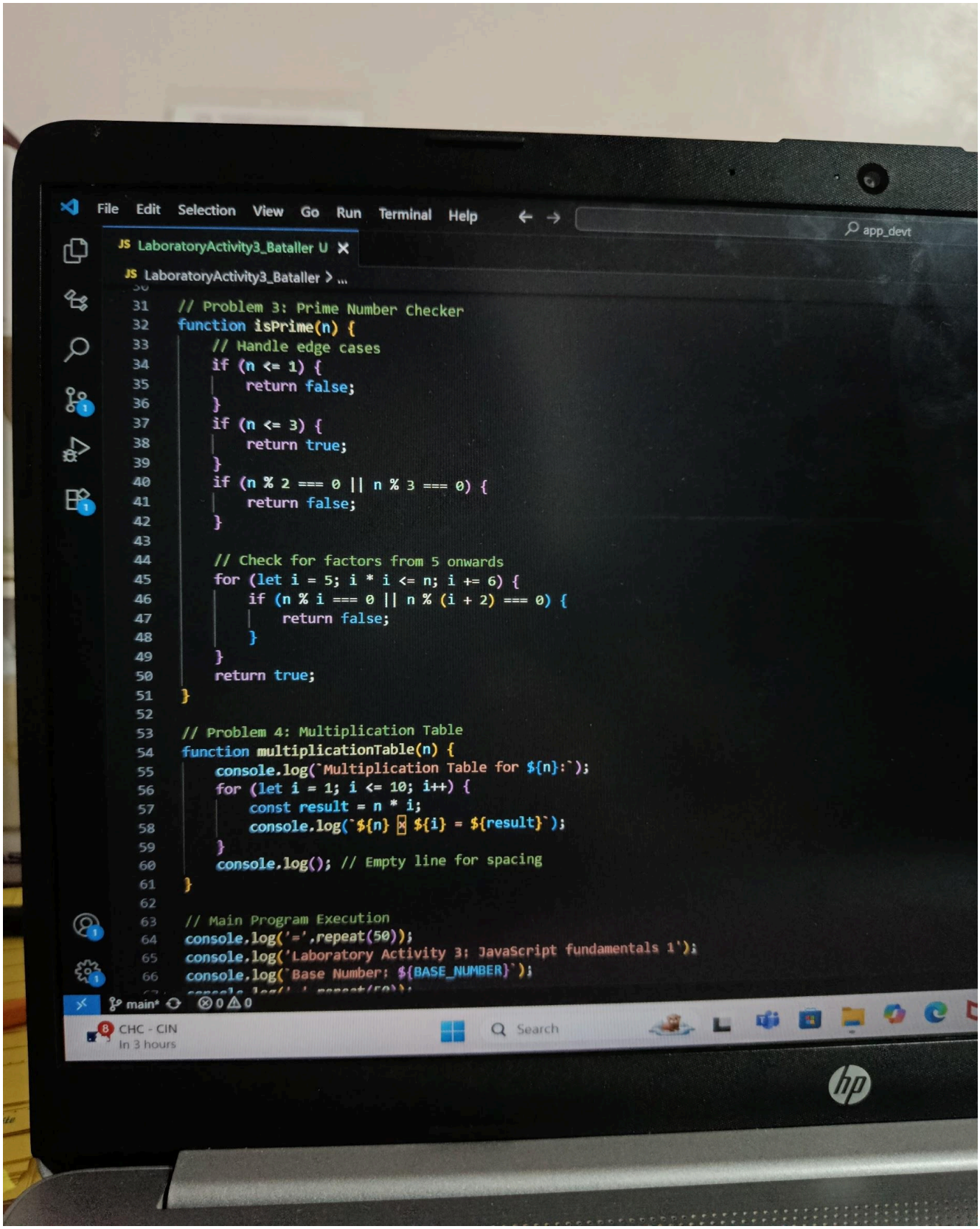
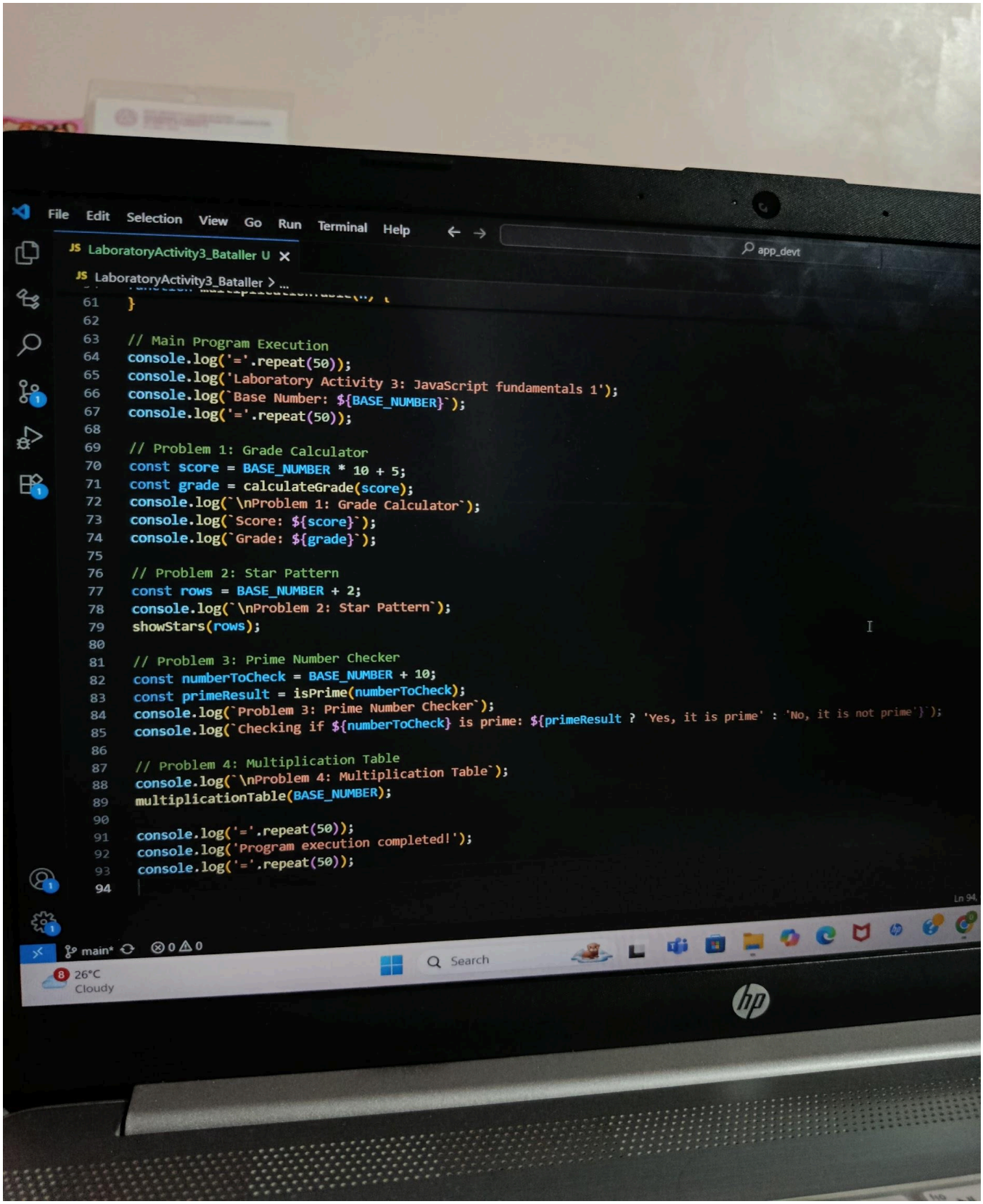
DESIREE GAIL BATALLER
BSCS 2A
APPLICATIONS DEVELOPMENT AND EMERGING TECHNOLOGIES

LABORATORY ACTIVITY 3 REPORT

Source Code




File Edit Selection View Go Run Terminal Help
app_devt
LaboratoryActivity3_Bataller U
LaboratoryActivity3_Bataller > ...
// Problem 3: Prime Number Checker
function isPrime(n) {
// Handle edge cases
if (n <= 1) {
return false;
}
if (n <= 3) {
return true;
}
if (n % 2 === 0 || n % 3 === 0) {
return false;
}
// Check for factors from 5 onwards
for (let i = 5; i * i <= n; i += 6) {
if (n % i === 0 || n % (i + 2) === 0) {
return false;
}
}
return true;
}
// Problem 4: Multiplication Table
function multiplicationTable(n) {
console.log(`Multiplication Table for ${n}:`);
for (let i = 1; i <= 10; i++) {
const result = n * i;
console.log(`${n} x ${i} = ${result}`);
}
console.log(); // Empty line for spacing
}
// Main Program Execution
console.log('='.repeat(50));
console.log('Laboratory Activity 3: JavaScript fundamentals 1');
console.log(`Base Number: ${BASE_NUMBER}`);
main*
CHC - CIN
In 3 hours
Search


File Edit Selection View Go Run Terminal Help
app_devt
LaboratoryActivity3_Bataller U
LaboratoryActivity3_Bataller > ...
61 }
62
63 // Main Program Execution
64 console.log('='.repeat(50));
65 console.log('Laboratory Activity 3: JavaScript fundamentals 1');
66 console.log(`Base Number: ${BASE_NUMBER}`);
67 console.log('='.repeat(50));
68
69 // Problem 1: Grade Calculator
70 const score = BASE_NUMBER * 10 + 5;
71 const grade = calculateGrade(score);
72 console.log(`\nProblem 1: Grade Calculator`);
73 console.log(`Score: ${score}`);
74 console.log(`Grade: ${grade}`);
75
76 // Problem 2: Star Pattern
77 const rows = BASE_NUMBER + 2;
78 console.log(`\nProblem 2: Star Pattern`);
79 showStars(rows);
80
81 // Problem 3: Prime Number Checker
82 const numberToCheck = BASE_NUMBER + 10;
83 const primeResult = isPrime(numberToCheck);
84 console.log(`Problem 3: Prime Number Checker`);
85 console.log(`Checking if ${numberToCheck} is prime: ${primeResult ? 'Yes, it is prime' : 'No, it is not prime'}`);
86
87 // Problem 4: Multiplication Table
88 console.log(`\nProblem 4: Multiplication Table`);
89 multiplicationTable(BASE_NUMBER);
90
91 console.log('='.repeat(50));
92 console.log('Program execution completed!');
93 console.log('='.repeat(50));
94
Ln 94,
main*
0 0
26°C
Cloudy
Search

Sample Output