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COMPUTER SCIENCE LEVEL 6
DEVELOP WEBSITE APPLICATION
ISCED UNIT CODE: 0613 554 06A
UNIT CODE: ICT/CU/CS/CR/10/6/MA
PRACTICAL ASSESSMENT THREE
TIME: 2 HOURS
CLASS: DCS 2509

INSTRUCTIONS TO CANDIDATE

Answer ALL questions.

1. In this practical assessment, you are required to perform the following task:

- i. **TASK 1:** Design a Student Grade Calculator
- ii. **TASK 2:** Design a Student Records System
- iii. **TASK 3 :** Develop a Student Marks Analysis System

2. You are provided with the following resources:

- i. Computer installed with website development tools. (i.e. Notepad ++, Sublime text, Visual studio) and Local Host Servers(i.e. XAMPP, Wamp server, AMPPS or Laragon)

Create a folder named **JS_Practical_Exam**.

Save your files as:

- index.html
- style.css
- script.js

Use an external CSS file for styling.

Test your webpage in a web browser before submitting.

TASK 1: Student Grade Calculator (15 Marks)

Design a webpage titled **Student Grade Calculator** containing the following form elements:

- Student Name

- CAT 1 Marks
- CAT 2 Marks
- End Term Examination Marks
- A button labelled **Calculate Result**

Write a JavaScript function named **calculateResult()** to perform the following tasks.

Requirement	Marks
Create the HTML form with the required input fields.	3
Create a function named calculateResult() .	3
Calculate the total marks and average.	3
Determine the student's grade using an if...else statement (A, B, C, D or E).	4
Display the student's name, total, average and grade using alert() .	2
Total	15 Marks

TASK 2: Student Records System (20 Marks)

Create a JavaScript program that stores student information using an **array of objects**.

Each object should contain the following properties:

- Student Name
- Admission Number
- Course
- Age

Use the data provided to create four student records and display them in an HTML table.

Requirement	Marks
Create an array containing four student objects.	5
Each object should have the required properties.	4
Use a loop to display all student records.	4
Display the records inside a properly formatted HTML table.	5
Write clear comments and use meaningful variable names.	2

Requirement	Marks
Total	20 Marks

TASK 3: Student Registration Form (15 Marks)

Create a webpage titled **Student Registration Form** containing the following form elements:

- Student Name
- Admission Number
- Course
- Email Address
- A button labelled **Register**

Using the **jQuery library**, write a program that performs the required tasks when the **Register** button is clicked.

Requirement	Marks
Correctly link the jQuery library to the webpage.	2
Create the HTML form with the required input fields.	3
Use jQuery to capture the values entered in the form.	3
Validate that all fields have been completed before displaying the output.	4
Display the student's registration details inside an HTML <div> using jQuery.	3
Total	15 Marks

END