Computer Science Division Department of Mathematics Faculty of Science



Level 2- Spring Semester Course: COMP 206

Java Script Sheet 1

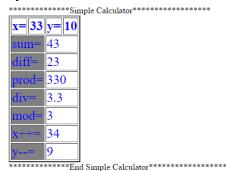
Creating First Java Script Programs

Objectives: On successful completion of this sheet, students should be able to

- 1. Write simple JavaScript programs.
- 2. Use the different output statements and differentiate between them.
- 3. Use HTML tags within the JavaScript code.
- 4. Use the *if* statements.
- Q1) Write a first JavaScript program to display **hello to HTML, CSS, and JavaScript World!**". The message will be of heading 1 and its color is blue (Using both document.write() and document.innerHTML).
- Q2) Write a JavaScript program that defines two variables x and y, then prints in the HTML Web page their summation, difference, product, division, and % (mod) of x and y. The output should be displayed as shown below.

x=33 and y=10		
sum=43 diff=23		
prod=330 div=3.3		
mod=3		
x++=34		
y=9		
**************End Simple Calculator**********		

Q3) Modify the above question to display the results in table as shown below.



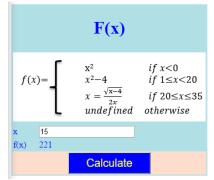
Q4) Write JavaScript and HTML code that read an integer x from the user and outputs

the value of f(x), where

$$f(x) = \begin{cases} x^2 & \text{if } x < 0 \\ x^2 - 4 & \text{if } 1 \le x < 20 \\ x = \frac{\sqrt{x - 4}}{2x} & \text{if } 20 \le x \le 35 \\ undefined & \text{otherwise} \end{cases}$$

The web page will be displayed as shown right.

Try to input x=-5, 0, 25, and 40.



Q5) Write JavaScript and HTML code that looks like the following fig:

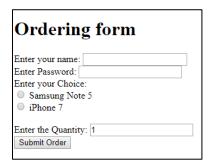
Registration form		
Enter your name:	1	
Enter your eamil:		
Check Myname		

• When clicking on the button, if you do not enter anything inside the text of the name an error message should appear like that:

Registration form		
You should enter your name		
Enter your name:		
Enter your eamil:		
Check Myname		

• But if you enter any name inside this text, a welcome alert message should appear like that:

Q6) Write JavaScript and HTML code that looks like the following fig:



- The name should by "XYZ" and the password should be "1234"
- When clicking on the button, if you entered wrong name and/or password, an error message should appear beside the textfield in red color.
- If you entered the correct data a confirmation alert message should appear containg the data you choiced.