



## **BCSE203E- Web Programming**

### **Assignment 2.2**

**Topics:** HTML- Forms, CSS and JavaScript

#### **Problem 1**

Using JavaScript, given an unsorted array of integers, sort the array into a wave-like array. An array 'arr[0..n-1]' is sorted in wave form if  $\text{arr}[0] \geq \text{arr}[1] \leq \text{arr}[2] \geq \text{arr}[3] \leq \text{arr}[4] \geq \dots$

**Input:**

$\text{arr}[] = \{10, 5, 6, 3, 2, 20, 100, 80\}$

**Output:**

$\text{arr}[] = \{10, 5, 6, 2, 20, 3, 100, 80\}$  OR  $\{20, 5, 10, 2, 80, 6, 100, 3\}$  OR

#### **Problem 2**

Write a JavaScript function which Calculate the sum of multiples of 5 and 7 for a given limit.

#### **Problem 3**

Write a JavaScript function that reverses a number.

Example  $x = 32243$ ;

Expected Output : 34223

#### **Problem 4**

Design a web page to calculate the BMI of a person

← → ↺ file:///C:/Users/HP/Downloads/index (1).html

**Check your BMI**

Enter your weight and height below to check your BMI results

Put your weight in here (KG)

And your height in here (CM)

Calculate BMI

Your BMI results will appear here

I Display a page loading message “Welcome”