Ex.No.3: Programs using Java Script – Part II

3.a. Write a function multiple that determines, for a pair of integers, whether the first integer is a multiple of the second. The function should take two integer arguments and return true if the first is a multiple of the second, and false otherwise. Incorporate this function into a Java script that inputs a series of pairs of integers (one pair at a time). The XHTML form should consist of two text fields and a button to initiate the calculation. The user should interact with the program by typing numbers in both text fields, then clicking the button.

3.b. Write program segments that accomplish each of the following tasks using Java script

a) Calculate the integer part of the quotient when integer a is divided by integer b.

b) Calculate the integer remainder when integer a is divided by integer b.

c) Use the program pieces developed in parts (a) and (b) to write a function Displa_Digits that receives an integer between 1 and 99999 and prints it as a series of digits, each pair of which is separated by two spaces. For example, the integer 4562 should be printed as 4 5 6 2.

d) Incorporate the function developed in part (c) into a Java script that inputs an integer from a prompt dialog and invokes Displa_Digits by passing to the function the integer entered.

3.c. Write a function Minimum3 that returns the smallest of three floating-point numbers. Incorporate the function into a Java script that reads three values from the user and determines the smallest value.

3.d. Write a function that takes an integer value and returns the number with its digits reversed. Incorporate the function into a Java script that reads a value from the user and return the result.

3.e. Write a function GCD(x, y) that returns the greatest common divisor of two integers, x and y. Incorporate the function into a Java script that reads two integer values from the user and return the result.