**School of Digital Media & Infocomm Technology (DMIT)**

**ST2111 Mobile Application Development I**

**Practical 4**

**Loops**

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| Objectives:  After completing this lab, you should be able to:   * Write programs which utilize the for loop, while loop, do-while loop |

**Exercise 1: Write Programs Involving Loops**

1. Create a copy of the **practical1-1** in the same **MAD1** folder
2. Rename the copied folder as **practical4-1** folder
3. Write a program inside **script.js** to generate each of the following outputs:

2 4 6 8 10 12 14 16

16 8 4 2 1

a) *while* loop

b) *do-while* loop

c) *for* loop

**Example Solution:**

i=2;

while (i<=16)

{

document.writeln(i + “<br>”);

i=i+2;

}

**Exercise 2:**

1. Create a copy of the **practical1-1** in the same **MAD1** folder
2. Rename the copied folder as **practical4-2** folder
3. Write a programin **script.js** to print all the multiples of 5, from 0 up to 1000. Implement the logic using:

a) *while* loop

b) *do-while* loop

c) *for* loop

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| 0  5  :  995  1000 |

1. Modify the loop to display whether each multiple is odd or even.

**Exercise 3:**

1. Create a copy of the **practical1-1** in the same **MAD1** folder
2. Rename the copied folder as **practical4-3** folder
3. Write a programin **script.js** that prompts user to enter 5 integer numbers and displays the numbers entered and calculate the sum of the number entered. You can assume that the user will always key in numbers and not texts. Implement the logic using:

a) *while* loop

b) *do-while* loop

c) *for* loop

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| number1: ***2***  number2: ***6***  number3: ***1***  number4: ***3***  number5: ***2***  Sum of numbers: ***14*** |

**Exercise 4:**

1. Create a copy of the **practical1-1** in the same **MAD1** folder
2. Rename the copied folder as **practical4-4** folder
3. Write a programin **script.js** that displays a “5 times” multiplication table. The output should be simlar to as follows:

