

**Exercise 1: Practice to write while loops**

Write C programs to

- i) Display numbers from 10 to 20.
- ii) Prompt the user to enter series of numbers from the keyboard and display the numbers. If user enters a negative number stop reading the numbers.
- iii) Modify the program written in ii) above display the sum and average of the positive numbers entered.

**Exercise 2: Compare while and do while loop**

What do the following two code segments will print for the cases  $x = 1$  and  $x = 10$ ?

i)	<pre>while (x &gt; 1) {     printf("%d", x);     x--; }</pre>	ii)	<pre>do {     printf("%d", x);     x--; } while (x &gt; 1);</pre>
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**Exercise 3: Practice to use loops (Use while loop)**

- i) Write a C program to enter 4 module marks of a student from the keyboard and display the total of all four module marks.
- ii) Modify the program written in i) above to enter 4 module marks of 3 students and display their total marks.
- iii) Display the student with the highest total mark.

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#### Exercise 4: Practice to write nested loops

Write a C program using *for* loops to display the following pattern on the screen.

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