

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)   while (x > 1) {  
        printf("%d", x);  
        x--;  
    }
```

```
ii)  do {  
        printf("%d", x);  
        x--;  
    } while (x > 1);
```

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.

Exercise 4: Practice to write nested loops

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

```
*  
**  
***  
****  
*****  
*****  
*****  
*****  
*****  
*****  
***  
*
```