Lesson 9 Do While

When there is an unknown number of iterations, the **do while loop** can be used to repeat a block of code, and it terminates when the condition is violated.

The difference between a **while loop** and a **do while loop** is that a condition is checked before executing a statement in the **while loop**. However, the **do while loop** executes the code block once before checking if the condition is true.

```c
do{
    //code block to be executed before checking the condition
}while(condition);
```

Example:

A program to calculate the total cost for a set of purchases:

```c
#include <stdio.h>
int main() {
    int item, sum = 0;
    //we declared two variables
    do {
        printf("Enter Item price : ");
```

```c
        scanf("%d", &item);
        //we take input from the user(the purchase price)
        sum += item;
        //adding the stored input(the purchase price) to the
total cost
    } while (item != 0);
    printf("Total = %d \n ", sum);
}
```

The code block in the curly braces { } is executed and then, the **while** condition is evaluated.

Try to code yourself:

- - > click here: [Lesson 9 Do While - Replit](#)