

Solution Review: Multiplication Table of a Number

In this review, the solution of the challenge 'Multiplication Table of a Number' from the previous lesson is provided.

We'll cover the following ^

- Solution
- Explanation

Solution

```
class HelloWorld {  
    public static void main( String args[] ) {  
        int num = 5;  
        int i = 1;  
        int table;  
        while (i <= 10) {  
            table = num * i;  
            answer += String.valueOf(table) + " ";  
            System.out.println(num + " x " + i + " = " + table);  
            i++;  
        }  
        System.out.println(answer);  
    }  
}
```



Explanation

To calculate the table of the given number, we will multiply the given number with 1, 2, up to 10.

- `int i = 1;` `i` is initialized to 1 as we will first multiply the given number with 1.
- `int table;` stores the result, which is calculated at each step.
- `while(i <= 10)` while loop will iterate from `i = 1` to `i = 10` as we have to multiply the given number with the values from 1 to 10. We don't need to

multiply the given number with **11**. Therefore, **while** loop will stop when the **i** reaches **11**.

- **table = num*i;** Let's say **num = 5**, and **i = 1**, so the answer will store **5 x 1**, i.e, **5**
- **i++;** Increment **i** for the next iteration. The values will range 1,2,3,...,10.

In the next lesson, we will solve another challenge related to loops.