Solution: Find Remainder and Quotient of an Integer

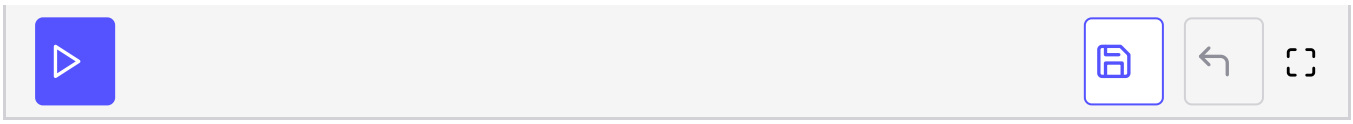
This lesson presents a solution to the coding challenge given in the previous lesson.

WE'LL COVER THE FOLLOWING

Solution

We can use the `/` operator for division to obtain the quotient and the `%` operator to get the remainder.

```
import std.stdio;

void DivideInteger() {

    int first = 7;
    int second = 3;

    int quotient = first / second;
    int remainder = first % second;

    write(first," = ",second," multiplied by " ,quotient," plus " ,remainder);

}
```



Solution

Code explanation

- **Line 8:**

```
int quotient = first / second;
```

We are using the `/` operator to divide the first integer by the second integer, which will give us the quotient that we need. Then, we are using the `=` operator to assign this value i.e. 2 to the `quotient` variable.

- **Line 9:**

```
int remainder = first % second;
```

We are doing the same thing as we did on **line 8**, but since we need the remainder this time, we are using the `%` operator.

- **Line 11:**

```
write(first," = ",second," multiplied by " ,quotient," plus " ,remain
der);
```

We are using both the variables: `remainder` and `quotient`, to display the output in the required format.

In the next lesson, we will explore the concepts of truncation and overflow.