Solution Review: Pass or Fail

In the following lesson, we will go over the solution of the challenge: Pass or Fail.

We'll cover the following

Task

In this challenge, you were provided the final percentage a student had at the end of the semester. You had to write a program that would determine if the student passed or failed. If the percentage was greater than or equal to **60** while also being greater than the average class percentage, the student passed, and if it was less than **60**, the student failed.

Solution

Let's go over the solution step-by-step.

- The first thing you had to figure out was that this problem is a conditional problem and would require an `if-else` expression.
- Next, you had to figure out what the conditions were. The first condition is that the student gets a percentage that is greater than or equal to **60** that is within **5** points of the class average. In this case, you would print `pass`.

```
if (percentage >= 60 && percentage > (average - 5)){
  print("pass");
}
```

- Finally, the last step required you to figure out the default condition, which was that the student gets a percentage which is less than **60**. In this case, you would print `fail`.

```
else{
```

```
  print("fail");
}
```

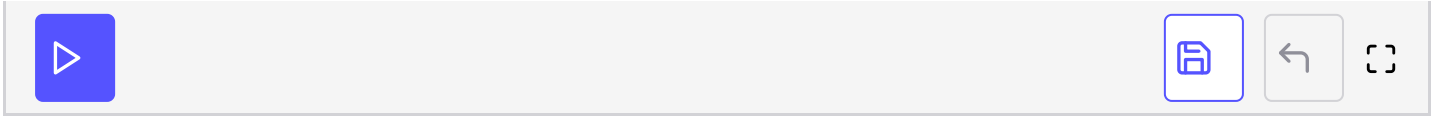
You can find the complete solution below:

> You were required to write the code given from **line 6** to **line 14**.

```
main() {
  var scores = [50, 96, 57, 68, 52, 87, 97, 43, 81, 30, 75, 60, 59];
  var percentage = 81;

  // Calculate the average class score
  var sum = scores[0] + scores[1] + scores[2] + scores[3] + scores[4] + scores[5] + scores[6] + sc
  var average = sum/13;

  // Check if student has passed or failed
  if (percentage >= 60 && percentage > (average-5)){
    print("pass");
  }else {
    print("fail");
  }
}
```



Let’s move on to loops in the next lesson.