Activity 4

let topping = "pepperoni";

switch (topping) {

  case "pepperoni":

  case "cheese":

  case "bbq sauce":

    console.log("These are important ingredients for my pizza!");

    break;

  case "ham":

  case "onion":

    console.log(`I don't mind having ${topping} on my pizza.`);

    break;

  default:

    console.log(`${topping} should not be on a pizza.`);

}

Activity 5

let password = "hello there";

if (password.length < 8) {

  console.log("Password is too short");

} else {

  console.log(`${password}`);

}

Activity 6

let num = 4664;

function reversedNum(num) {

  return (

    parseFloat(num.toString().split("").reverse().join("")) \* Math.sign(num)

  );

}

console.log(reversedNum(num));

Activity 7

let num = 20;

if (num % 3 == 0 && num % 5 == 0) {

  console.log("fizz buzz");

} else if (num % 5 == 0) {

  console.log("buzz");

} else if (num % 3 == 0) {

  console.log("fizz");

} else {

  console.log(`${num}`);

}

Activity 8

let time = 20;

let placeOfWork = "work";

let townOfHome = "home";

if (time <= 8 || (time >= 18 && time < 25)) {

  console.log(`I'm at ${townOfHome}`);

} else {

  console.log(`I'm at ${placeOfWork}`);

}

Activity 9

let myString =

  "jrfndklhgfndjkjlkgperfijfhdknsadcvjhiiohjfkledsopiuhgtyujwsdxcvhgfdjhiopiwquhejkdsoiufghedjwsh";

let vowels = ["a", "e", "i", "o", "u"];

let arr = myString.split("").reverse(); // split string into array, and reverse it

let indexOfLastVowelInReverse = arr.findIndex((e) => vowels.includes(e));

if (indexOfLastVowelInReverse != -1) {

  // if the index is -1 there is no vowel in the string

  let index = myString.length - 1 - indexOfLastVowelInReverse;

  console.log(`Last vowel found at index ${index}: ${myString[index]}`);

}

Activity 10