**Task 1 - The Calculator**

const squareNumber = (number) => {

let numberSquared = number \* number;

console.log(`The result of squaring the number ${number} is ${numberSquared}`);

return numberSquared;

};

const halfNumber = (number) => {

let numberHalved = number / 2;

console.log(`Half of ${number} is ${numberHalved}`);

return numberHalved;

};

const percentOf = (number1, number2) => {

let percentage = (number1 / number2) \* 100;

console.log(`${number1} is ${percentage}% of ${number2}`);

return percentage;

};

const areaOfCircle = (radius) => {

circleArea = parseFloat(Math.PI \* (radius \* radius)).toFixed(2);

console.log(`The area for a circle with radius ${radius} is ${circleArea}`);

return circleArea;

};

const allOfTheAbove = (number) => {

console.log(`Running calculations on ${number}`);

hlfNum = halfNumber(number);

sqNum = squareNumber(hlfNum);

cirRad = areaOfCircle(sqNum);

resultPercentage = percentOf(cirRad, sqNum);

}

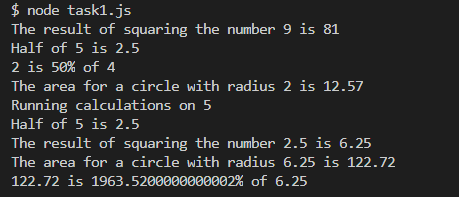
squareNumber(9);

halfNumber(5);

percentOf(2, 4);

areaOfCircle(2);

allOfTheAbove(5);



**Task 2 – DrEvil**

const DrEvil = (number) => {

if (number !== 1000000) {

console.log(`DrEvil(${number}): ${number} dollars`);

} else {

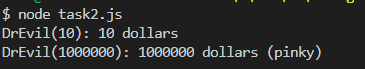
console.log(`DrEvil(${number}): ${number} dollars (pinky)`);

}

};

DrEvil(10);

DrEvil(1000000);



**Task 3 - MixUp**

const mixUp = (str1, str2) => {

newStr1 = str2.slice(0, 2) + str1.slice(2, str1.length);

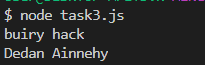
newStr2 = str1.slice(0, 2) + str2.slice(2, str2.length);

console.log(newStr1, newStr2);

};

mixUp("hairy", "buck");

mixUp("Aidan", "Dennehy");



**Task 4 - FixStart**

const fixStart = (str1) => {

var newString = "";

theFirstCharacter = str1.charAt(0);

for (loopCounter = 0; loopCounter < str1.length; loopCounter++) {

var currentLetter = str1.charAt(loopCounter);

if (str1.charAt(loopCounter) === theFirstCharacter && loopCounter !== 0) {

newString += "\*";

} else {

newString += currentLetter;

}

}

console.log(newString);

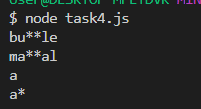
};

fixStart("bubble");

fixStart("mammal");

fixStart("a");

fixStart("aa");



**Task 5 - Verbing**

const verbing = (word) => {

if (word.length > 3) {

if (word.slice(word.length - 3, word.length) === 'ing') {

word += 'ly';

} else {

word += 'ing';

}

}

console.log(word);

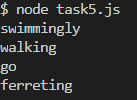
};

verbing("swimming");

verbing("walk");

verbing("go");

verbing("ferret");



**Task 6 - Not Bad**

const notBad = (str) => {

var notWordFound = str.indexOf('not');

var badWordFound = str.indexOf('bad');

//console.log(notWordFound);

//console.log(badWordFound);

if (notWordFound === -1 || badWordFound === -1 || badWordFound < notWordFound) {

return str;

}

newStr = str.slice(0, notWordFound) + "good" + str.slice(badWordFound + 3);

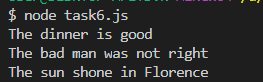
return newStr;

};

console.log(notBad("The dinner is not that bad"));

console.log("The bad man was not right");

console.log(notBad("The sun shone in Florence"));



**Task 7 - Your Top Choices**

var topChoices = ["Dolly Parton", "blue", "Egg Fried Rice", "Strictly Come Dancing", "Jazz"];

for (var loopCounter = 0; loopCounter < topChoices.length; loopCounter++) {

console.log(`My #${loopCounter + 1} choice is ${topChoices[loopCounter]}`);

}

console.log("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

for (var loopCounter = 0; loopCounter < topChoices.length; loopCounter++) {

if (loopCounter === 0) {

var preFix = "1st";

} else if (loopCounter === 1) {

var preFix = "2nd";

} else if (loopCounter === 2) {

var preFix = "3rd";

} else if (loopCounter === 3) {

var preFix = "4th";

} else if (loopCounter === 4) {

var preFix = "5th";

} else if (loopCounter === 5) {

var preFix = "6th";

} else if (loopCounter === 6) {

var preFix = "7th";

} else if (loopCounter === 7) {

var preFix = "8th";

} else if (loopCounter === 8) {

var preFix = "9th";

} else if (loopCounter === 9) {

var preFix = "10th";

}

console.log(`My ${preFix} choice is ${topChoices[loopCounter]}`);

}

