7.7 Demo Code

todo.js

```
function runActivity() {
  const todo_list = [];

  while (true) {
    let todo = prompt("Add item for to-do list (0) Stop: ");
    if (todo != 0) {
      console.log("Length: " + todo.length);
      if (todo.toLowerCase() == "buy food") {
        let food_buy = prompt("What food would you like to buy?");
        todo_list.push("buy ".concat(food_buy, " from grocery"));
      } else {
        todo_list.push(todo.trim());
      }
    } else {
      break;
    }
  }

  for (let i = 0; i < todo_list.length; i++) {
    console.log(i + ". " + todo_list[i]);
  }

  console.log("End of program");
}
```

stringtest.js

```
function runActivity() {
  let x = "ABCDEFGHIJKLMNOPQRSTUVWXYZLMNOP";
  console.log(x.substring(22, x.length));
  console.log(x.replace("LMNOP", "DAIBEN"));
  console.log(x.replaceAll("LMNOP", "DAIBEN"));
  console.log(x.includes("X"));

  let y = "9876543210";
```

```
  console.log(y.charAt(y.length - 1));
  console.log(y.indexOf("876"));
  for (let i = 0; i < y.length; i++) {
    console.log(y.charAt(i));
    if (y.charAt(i) == 9) {
      console.log("this is nine");
    }
  }

  let z = "CJ,Keith,Rendell,Vance";
  let z_array = z.split(",");
  console.log(z_array);
  console.log(z_array[1]);
}
```

mathtest.js

```
function runActivity() {
  console.log(Math.PI);
  console.log(Math.SQRT2);
  console.log(Math.SQRT1_2);
  console.log(Math.round(5.6));
  console.log(Math.ceil(5.1));
  console.log(Math.floor(5.9));
  console.log(Math.trunc(5.9));
  console.log(Math.sign(4));
  console.log(Math.sqrt(4));
  console.log(Math.abs(-400));
  console.log(Math.min(40, 600, 2));
  console.log(Math.max(40, 600, 2));
  let x = [60, 100, 85];
  console.log(Math.min.apply(Math, x));
  console.log(Math.max.apply(Math, x));
  console.log(Math.random());
}
```