

```
1 // Declare variables of different data types
2 let name = "John Doe";
3 let age = 30;
4 const isStudent = true;
5 let grades = [90, 85, 80];
6
7 // Use if-else statement to check a condition
8 if (isStudent) {
9   console.log("Welcome, student!");
10 } else {
11   console.log("Sorry, you are not a student.");
12 }
13
14 // Use a for loop to iterate through an array
15 for (let i = 0; i < grades.length; i++) {
16   console.log("Grade: " + grades[i]);
17 }
18
19 // Use the typeof operator to check the data type of a variable
20 console.log("Type of name: " + typeof name);
21
22 // Use the ternary operator to check if age is greater than 18
23 let ageCheck = age > 18 ? 'Adult' : 'Minor';
24 console.log("Age Check: " + ageCheck);
25
26 // Use a while loop to print even numbers between 1 and 10
27 let num = 1;
28 while(num <= 10) {
29   if(num % 2 === 0) {
30     console.log(num);
31   }
32   num++;
33 }
34
35 // Use the switch statement to check a variable value
36 let day = new Date().getDay();
37 switch(day) {
38   case 0:
39     console.log("Today is Sunday");
40     break;
41   case 1:
42     console.log("Today is Monday");
43     break;
44   case 2:
45     console.log("Today is Tuesday");
46     break;
47   // add more cases for the remaining days
48   default:
49     console.log("Invalid Day");
50 }
51
```