

hello1.js (Page 1 of 1)

```
1: //-----  
2: // hello1.js  
3: // Author: Bob Dondero  
4: //-----  
5:  
6: 'use strict';  
7:  
8: process.stdout.write('hello, world\n');  
9:  
10: // Alternative:  
11: // console.log('hello, world'); // Always appends a newline.  
12:
```

hello2.js (Page 1 of 1)

```
1: //-----  
2: // hello2.js  
3: // Author: Bob Dondero  
4: //-----  
5:  
6: 'use strict';  
7:  
8: function main() {  
9:     process.stdout.write('hello, world\n');  
10: }  
11:  
12: if (require.main === module)  
13:     main();
```

square.js (Page 1 of 1)

```

1: //-----
2: // square.js
3: // Author: Bob Dondero
4: //-----
5:
6: 'use strict';
7:
8: // Function definition statement
9: function square1(i) {
10:   return i * i;
11: }
12:
13: // Function definition expression
14: let square2 = function(i) {
15:   return i * i;
16: };
17:
18: // Arrow function definition expression
19: let square3 = (i) => {return i * i;};
20: let square4 = (i) => i * i;
21: let square5 = i => i * i;
22:
23: function main() {
24:   let sqr1 = square1(5);
25:   let sqr2 = square2(5);
26:   let sqr3 = square3(5);
27:   let sqr4 = square4(5);
28:   let sqr5 = square5(5);
29:
30:   process.stdout.write(String(sqr1) + '\n');
31:   process.stdout.write(String(sqr2) + '\n');
32:   process.stdout.write(String(sqr3) + '\n');
33:   process.stdout.write(String(sqr4) + '\n');
34:   process.stdout.write(String(sqr5) + '\n');
35: }
36:
37: if (require.main === module)
38:   main();

```

squareroot.js (Page 1 of 1)

```

1: //-----
2: // squareroot.js
3: // Author: Bob Dondero
4: //-----
5:
6: 'use strict';
7:
8: function main() {
9:   let sqrtOfTwo = Math.sqrt(2.0);
10:   process.stdout.write(String(sqrtOfTwo) + '\n');
11: }
12:
13: if (require.main === module)
14:   main();

```

circle1.js (Page 1 of 1)

```

1: //-----
2: // circle1.js
3: // Author: Bob Dondero
4: //-----
5:
6: // Before running this program you must install the readline-sync
7: // module. You can do that by issuing this command:
8: // npm install readline-sync
9:
10: 'use strict';
11:
12: const readlineSync = require('readline-sync');
13:
14: function main() {
15:   let line = readlineSync.question("Enter the circle's radius:\n");
16:   let radius = Number(line);
17:
18:   let diam = 2 * radius;
19:   let circum = Math.PI * diam;
20:
21:   process.stdout.write('A circle with radius ' + String(radius) +
22:     ' has diameter ' + String(diam) + '\n');
23:   process.stdout.write('and circumference ' + String(circum) + '\n');
24: }
25:
26: if (require.main === module)
27:   main();

```

circle2.js (Page 1 of 1)

```

1: //-----
2: // circle2.js
3: // Author: Bob Dondero
4: //-----
5:
6: // Before running this program you must install the readline-sync
7: // module. You can do that by issuing this command:
8: // npm install readline-sync
9:
10: 'use strict';
11:
12: const readlineSync = require('readline-sync');
13:
14: function main() {
15:   try {
16:     let line = readlineSync.question(
17:       "Enter the circle's radius:\n");
18:     if (line === '')
19:       throw new Error('Missing number');
20:
21:     if (isNaN(line))
22:       throw new Error('Not a number');
23:     let radius = Number(line);
24:
25:     let diam = 2 * radius;
26:     let circum = Math.PI * diam;
27:
28:     process.stdout.write('A circle with radius ' + String(radius) +
29:       ' has diameter ' + String(diam) + '\n');
30:     process.stdout.write('and circumference ' + String(circum) +
31:       '\n');
32:   }
33:   catch (e) {
34:     process.stderr.write(String(e) + '\n');
35:   }
36: }
37:
38: if (require.main === module)
39:   main();

```