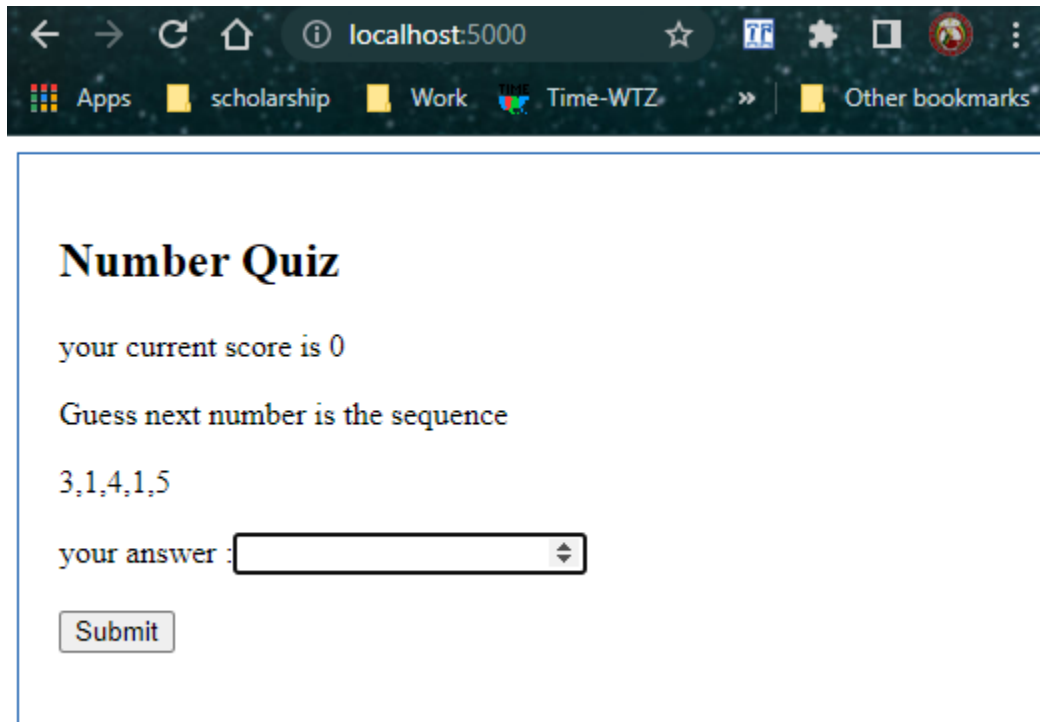


Number Quiz Lab Solution

Screenshots



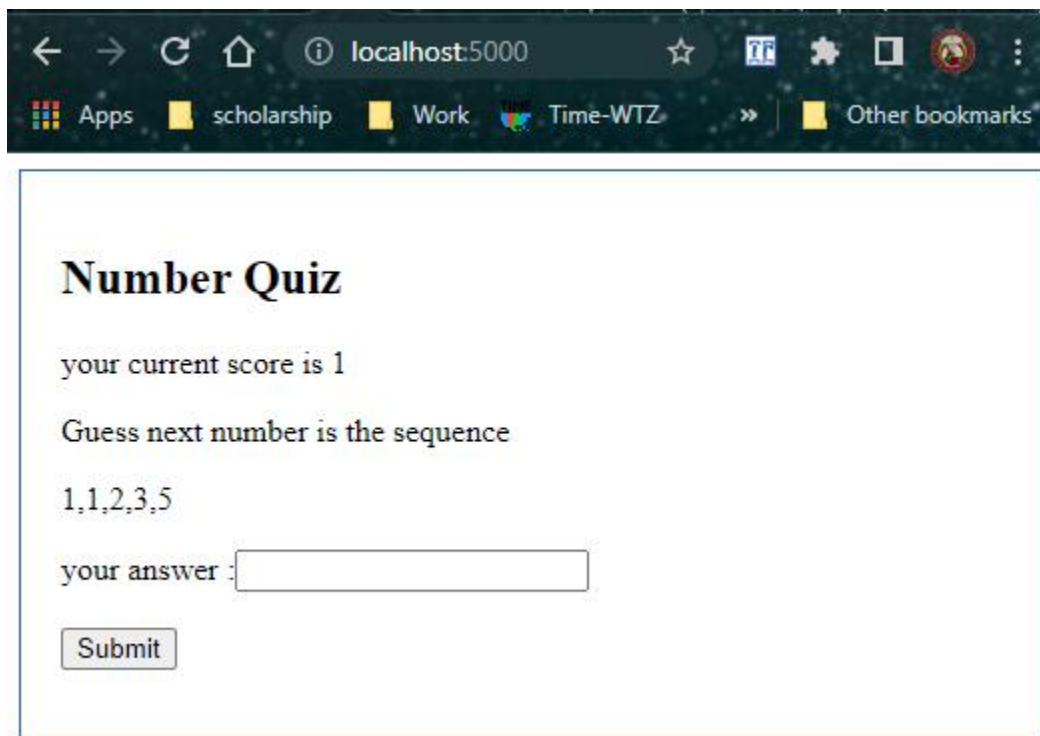
Number Quiz

your current score is 0

Guess next number is the sequence

3,1,4,1,5

your answer :



Number Quiz

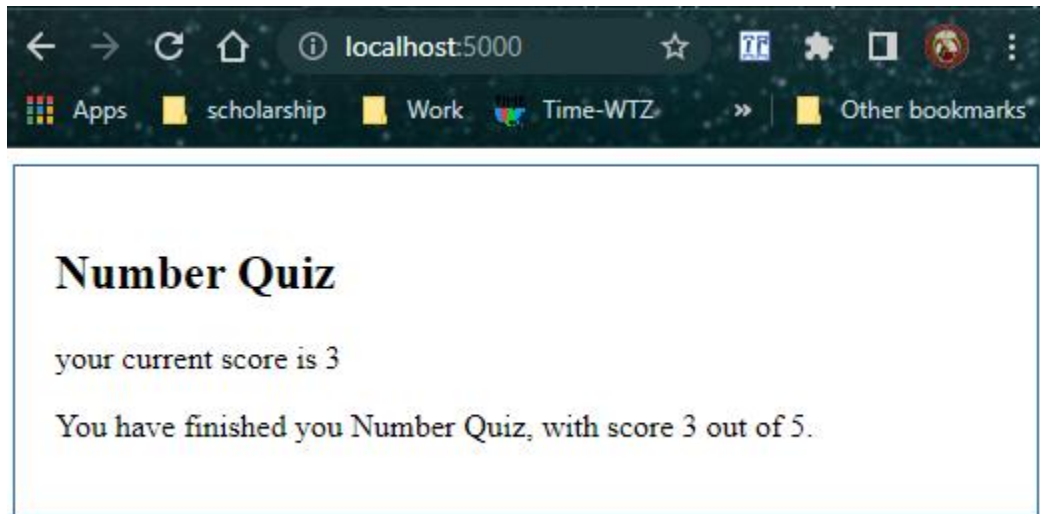
your current score is 1

Guess next number is the sequence

1,1,2,3,5

your answer :

Number Quiz Lab Solution



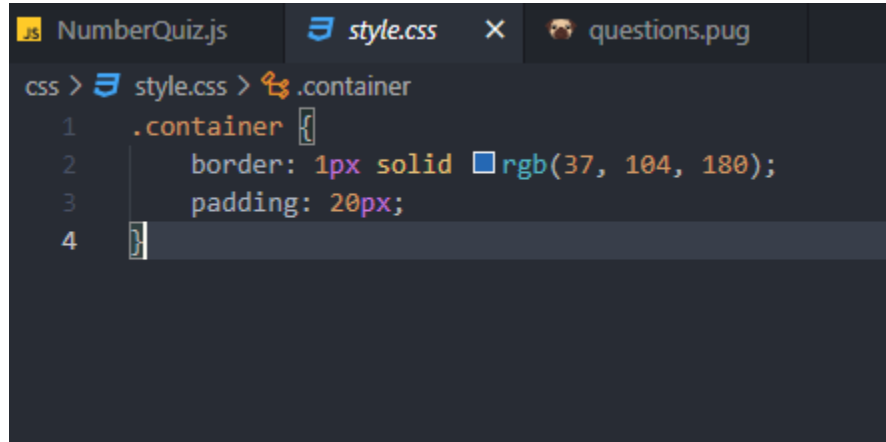
Server Log

```
Server running on port 5000
[nodemon] restarting due to changes...
[nodemon] starting `node .\NumberQuiz.js`
Server running on port 5000
user answer : 9 expected answer : 9
question :1 score 1
user answer : 7 expected answer : 8
question :2 score 1
user answer : 36 expected answer : 36
question :3 score 2
user answer : 13 expected answer : 13
question :4 score 3
user answer : 24 expected answer : 32
question :5 score 3
```

Number Quiz Lab Solution

Source code

Figure 1: Stylesheet

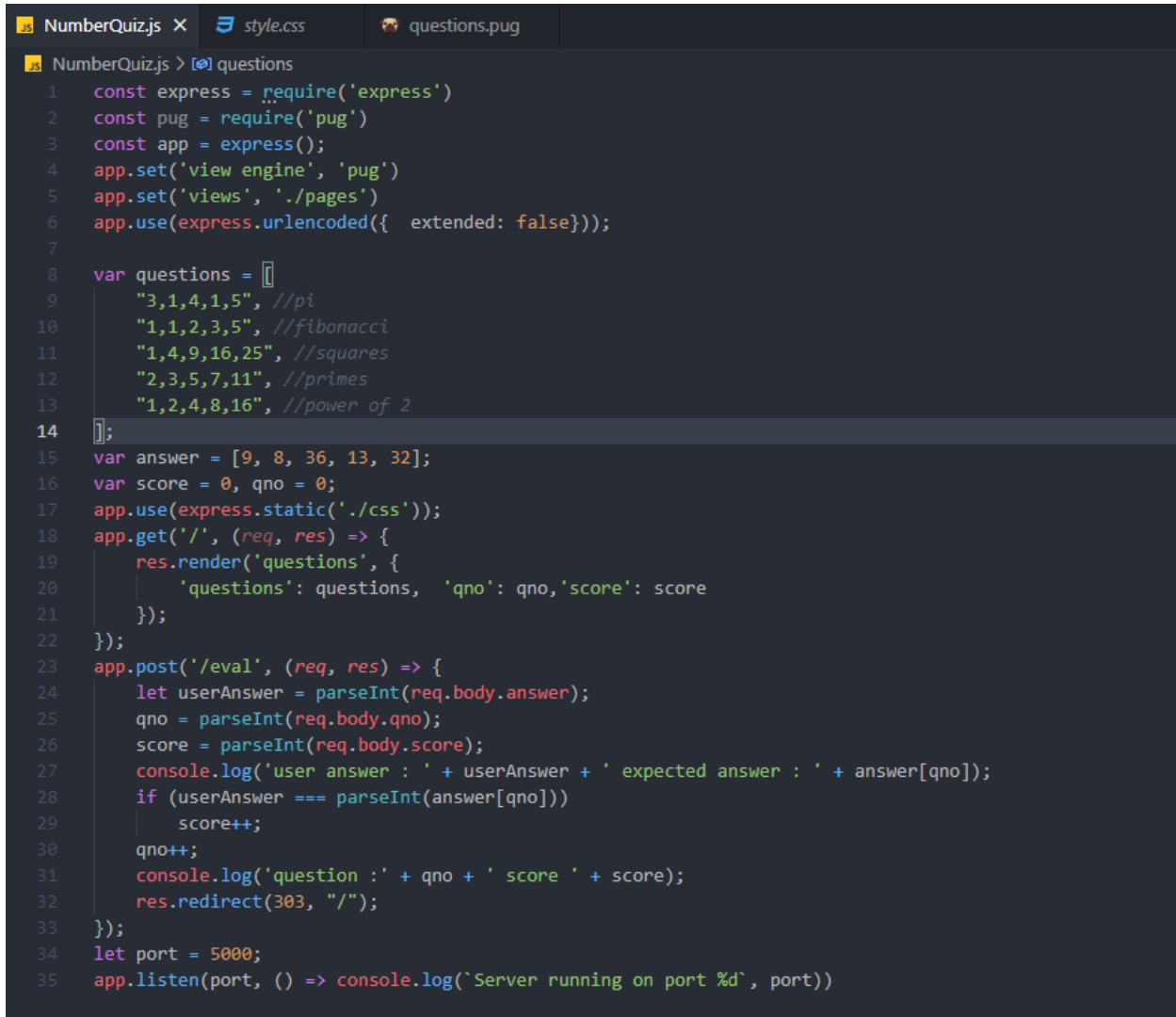


The image shows a code editor with three tabs: 'NumberQuiz.js', 'style.css', and 'questions.pug'. The 'style.css' tab is active, showing the following CSS code:

```
css > style.css > .container
1  .container {
2      border: 1px solid #0070C0;
3      padding: 20px;
4  }
```

Number Quiz Lab Solution

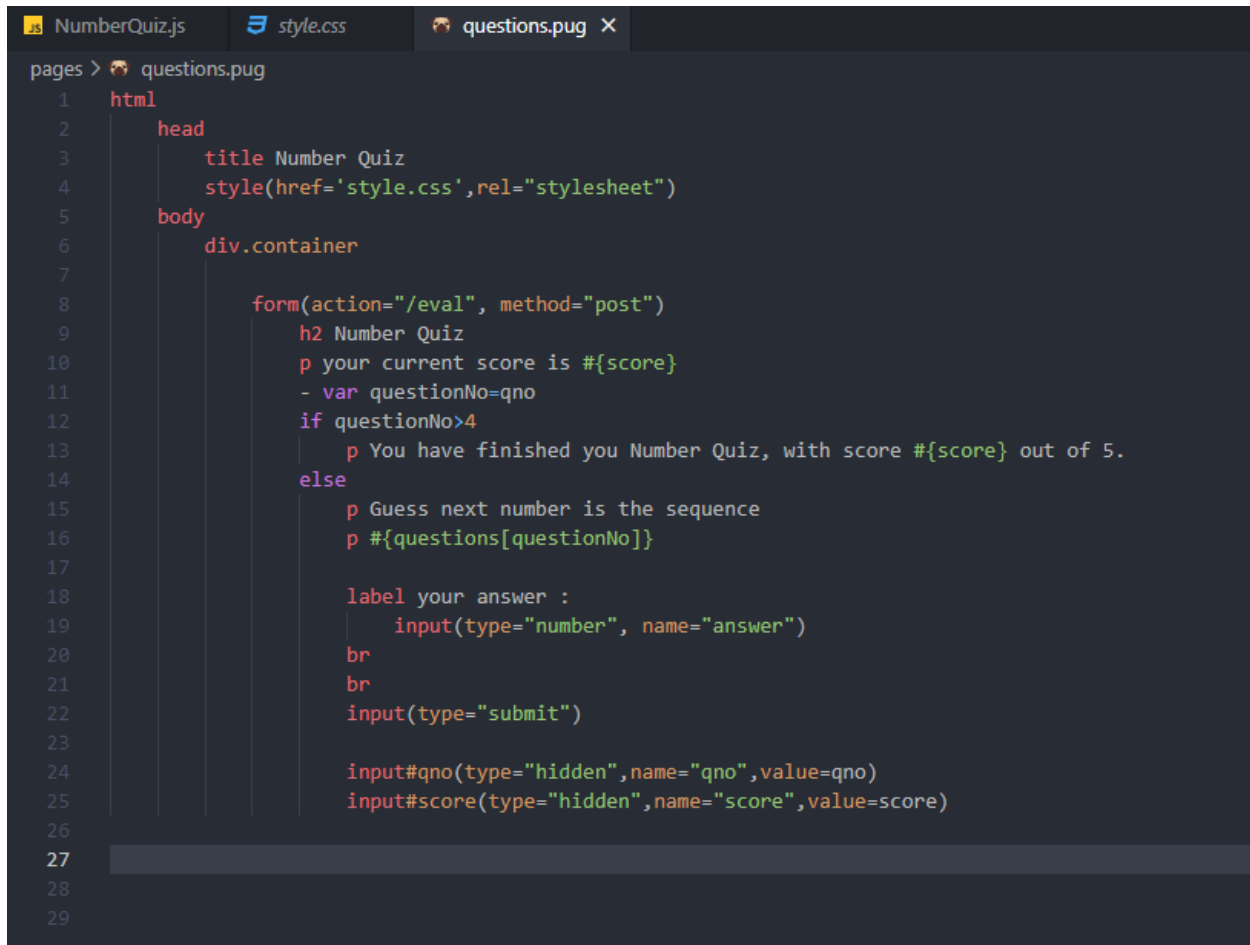
Figure 2: express Node.js main



```
NumberQuiz.js X style.css questions.pug
NumberQuiz.js > [?] questions
1  const express = require('express')
2  const pug = require('pug')
3  const app = express();
4  app.set('view engine', 'pug')
5  app.set('views', './pages')
6  app.use(express.urlencoded({ extended: false}));
7
8  var questions = [
9    "3,1,4,1,5", //pi
10   "1,1,2,3,5", //fibonacci
11   "1,4,9,16,25", //squares
12   "2,3,5,7,11", //primes
13   "1,2,4,8,16", //power of 2
14 ];
15 var answer = [9, 8, 36, 13, 32];
16 var score = 0, qno = 0;
17 app.use(express.static('./css'));
18 app.get('/', (req, res) => {
19   res.render('questions', {
20     'questions': questions, 'qno': qno, 'score': score
21   });
22 });
23 app.post('/eval', (req, res) => {
24   let userAnswer = parseInt(req.body.answer);
25   qno = parseInt(req.body.qno);
26   score = parseInt(req.body.score);
27   console.log('user answer : ' + userAnswer + ' expected answer : ' + answer[qno]);
28   if (userAnswer === parseInt(answer[qno]))
29     score++;
30   qno++;
31   console.log('question : ' + qno + ' score ' + score);
32   res.redirect(303, "/");
33 });
34 let port = 5000;
35 app.listen(port, () => console.log(`Server running on port %d`, port))
```

Number Quiz Lab Solution

Figure 3: pug template



```
NumberQuiz.js style.css questions.pug X
pages > questions.pug
1  html
2    head
3      title Number Quiz
4      style(href='style.css',rel="stylesheet")
5    body
6      div.container
7
8      form(action="/eval", method="post")
9        h2 Number Quiz
10       p your current score is #{score}
11       - var questionNo=qno
12       if questionNo>4
13         p You have finished you Number Quiz, with score #{score} out of 5.
14       else
15         p Guess next number is the sequence
16         p #{questions[questionNo]}
17
18         label your answer :
19         input(type="number", name="answer")
20         br
21         br
22         input(type="submit")
23
24         input#qno(type="hidden",name="qno",value=qno)
25         input#score(type="hidden",name="score",value=score)
26
27
28
29
```

Figure 4 : File structure

