State Diagram

```
         DIGIT                              DIGIT
   ┌──────────┐                       ┌──────────┐
   │          ▼                       │          ▼
(S0) ──DIGIT──▶ (S1) ──DOT──▶ ((S3)) ──DIGIT──▶ ((S4))
  │
  │ DOT
  ▼
 (S2) ──DIGIT──▶ ((S5))
                   ▲  │
                   └──┘
                  DIGIT
```

- S0 ──DIGIT──▶ S1
- S1 ──DIGIT──▶ S1 (self loop)
- S1 ──DOT──▶ S3 (accepting)
- S3 ──DIGIT──▶ S4 (accepting)
- S4 ──DIGIT──▶ S4 (self loop)
- S0 ──DOT──▶ S2
- S2 ──DIGIT──▶ S5 (accepting)
- S5 ──DIGIT──▶ S5 (self loop)

Terminal Output

```
C:\Users\kakos\PycharmProjects\untitled1\venv\Scripts\python.exe C:/Users/kakos/PycharmProjects/untitled1/game.py
Testing '12.456'
Result: {'lexeme': '12.456', 'token': 'FLOAT_TOKEN'}

Testing '6789.'
Result: {'lexeme': '6789.', 'token': 'FLOAT_TOKEN'}

Testing '.66998'
Result: {'lexeme': '.66998', 'token': 'FLOAT_TOKEN'}

Testing '1234'
Result: None

Testing '.'
Result: None


Process finished with exit code 0
```