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 NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Compiler Design (course)


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Course
outline

About
NPTEL ()

How does an
NPTEL
online
course
work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

☐ Lecture 12 :
Lexical
Analysis
(Contd.) (unit?

Week 3 : Assignment 3

The due date for submitting this assignment has passed.

Due on 2025-02-12, 23:59 IST.

Assignment submitted on 2025-02-05, 23:16 IST

1) Which of the following is a lexical analysis tool 1 point

- a) Lex
- b) Flex
- c) Jflex
- d) All of the other options

- ☐ a
- ☐ b
- ☐ c
- ☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d

2) In a lex specification file "?" stands for 1 point

- a) 0 or more occurrences of preceding regular expression
- b) One or more occurrences of preceding regular expression
- c) Exactly one occurrences of preceding regular expression
- d) None of the other options

- ☐ a

unit=37&less
n=38)

☐ Lecture 13 :
Lexical
Analysis
(Contd.) (unit?
unit=37&less
n=39)

☐ Lecture 14 :
Lexical
Analysis
(Contd.) (unit?
unit=37&less
n=40)

☐ Lecture 15 :
Lexical
Analysis
(Contd.) (unit?
unit=37&less
n=41)

☐ Lecture 16 :
Parser (unit?
unit=37&less
n=42)

☐ Lecture
Materials
(unit?
unit=37&less
n=43)

☐ Feedback
Form (unit?
unit=37&less
n=44)

☐ Week 03 :
Assignment
Solution (unit?
unit=37&less
n=165)

☒ **Quiz: Week 3
: Assignment
3
(assessment?
name=183)**

Week 4 ()

Week 5 ()

Week 6 ()

- ☐ b
☐ c
☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d

3)

1 point

Between NFA and DFA which an has the potential to have more states in it

- a) DFA
b) NFA
c) Cannot be said deterministically
d) Both of same number of sets

- ☒ a
☐ b
☐ c
☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

4)

Which of the following has more expressive power

1 point

- a) DFA
b) NFA
c) Regular expression
d) All of the mentioned

- ☐ a
☐ b
☐ c
☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d

5)

Lex specification file sections are demarcated by

1 point

- a) %
b) {%
c) %}
d) %%

- ☐ a
☐ b

Week 7 ()**Week 8 ()****Week 9 ()****Week 10 ()****Week 11 ()****Week 12 ()****DOWNLOAD
VIDEOS ()****Text
Transcripts
()****Books ()**☐ c☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d

6)

1 point ϵ -closure of a state includes

- a) All states reachable from it by ϵ transitions only
- b) All states reachable from it by single ϵ transitions only
- c) All states from which this state can be reached using ϵ transitions
- d) All states from which this state can be reached using ϵ transitions and all states reachable from it by ϵ transitions only

☒ a☐ b☐ c☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a

7) Which among the following is false?

1 point ϵ -closure of a subset S of Q is:

- a) Every element of S
- b) For any $q \in \epsilon$ -closure, every element of $\delta(q, \epsilon)$ is in ϵ -closure.
- c) No other element is in $\epsilon(S)$
- d) None of the mentioned

☐ a☐ b☐ c☒ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

d

8) Output of lex program is available in a file named

1 point

- a) Lex.c
- b) Lex.yy.c
- c) Lex.l
- d) Lex.yy.l

☐ a☒ b

☐ c

☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

b

9)

1 point

All the regular languages can have one or more of the following descriptions:

i) DFA ii) NFA iii) Regular Expressions

Which of the following are correct?

a) i only

b) ii , iii

c) i , ii

d) iii only

☐ a

☒ b

☐ c

☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

b

10) Number of sections in a lex program is

1 point

a) 1

b) 2

c) 3

d) 4

☐ a

☐ b

☒ c

☐ d

Yes, the answer is correct.

Score: 1

Accepted Answers:

c