

982302933

عنوان تکالیف

Chapter 2 (12-15-16-17-20)

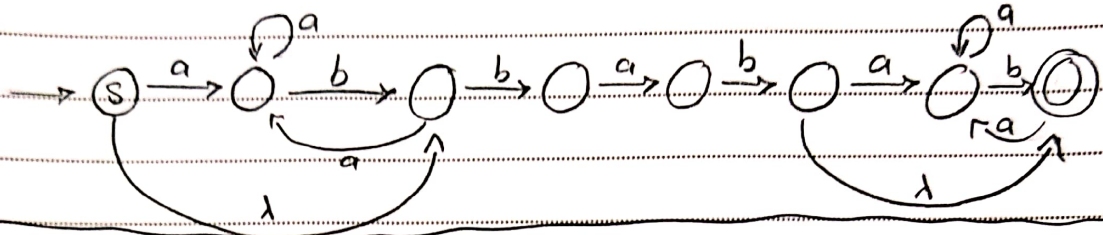
11-08

کلاس تکلیف

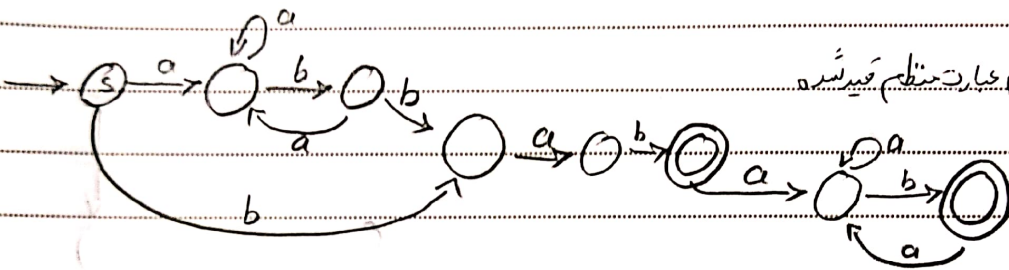
(17)

$\Sigma = \{a, b\}$

الف NFA برای $(a+b)^* bab (a+b)^*$



ب. DFA برای عبارت منظم قبلی



outputCode.c - University - Visual Studio Code

File Edit Selection View Go Run Terminal Help

Exercise12.l U X

5th > Compiler Design > Exercises > hw2 > Exercise12.l

```
1  %{
2  #include<stdio.h>
3  #include<string.h>
4
5  char replace_with [] = "double";
6  char replace [] = "float";
7  %{
8
9  %%
10 [a-zA-Z]+ { if(strcmp(yytext, replace)==0)
11             fprintf(yyout, "%s", replace_with);
12             else
13             fprintf(yyout, "%s", yytext);}
14
15 [ \n\t]+ {fprintf(yyout, " ");}
16 .        fprintf(yyout, "%s", yytext);
17 %%
18
19 int yywrap()
20 {
21     return 1;
22 }
23 int main()
24 {
25     extern FILE *yyin, *yyout;
26     yyin=fopen("inputCode.c", "r");
27     yyout=fopen("outputCode.c", "w");
28     yylex();
29 }
```

inputCode.c U X

5th > Compiler Design > Exercises > hw2 > inputCode.c > main()

```
1  #include <stdio.h>
2  int main() {
3      float a, b, product;
4      printf("Enter two numbers: ");
5      scanf("%lf %lf", &a, &b);
6
7      // Calculating product
8      product = a * b;
9
10     printf("Product = %.2lf", product);
11
12     return 0;
13 }
```

outputCode.c U X

5th > Compiler Design > Exercises > hw2 > outputCode.c

```
1  #include <stdio.h> int main() { double a, b, product;
```

PROBLEMS OUTPUT DEBUG CONSOLE

TERMINAL ZSH - HW2

```
→ hw2 git:(master) x lex Exercise12.l
→ hw2 git:(master) x gcc lex.yy.c
→ hw2 git:(master) x ./a.out
→ hw2 git:(master) x
```

OUTPUT

Ln 1, Col 199 Spaces: 4 UTF-8 LF c kate: not installed Linux