

United International University (UIU)
Dept. of Computer Science & Engineering (CSE)
MID Year: 2020 Trimester: Fall Program: BSCSE
Course: CSI 412 Compiler Lab

Marks: 20, Time: 75 Min(Coding) + 15 Min(Submission) = 1 Hour & 30 Minutes TOTAL

- [1] Create a menu with Option 1 would run the regular expression program below and Menu [10]
Option 2 will close the program. Put the entire code in an infinite while loop. Write a program to execute a regular expression that will accept a string with the following criteria. **You are not allowed to use any Regular Expression related library functions.**

- i. begin with a first name of a human(all capital letters without numbers and special characters)
- ii. after the name, a character can be any one of these three only (@, #, \$)
- iii. then, a constant string "UIU"
- iv. then, a digit between range 1 to 3
- v. after the digit, add 3 consecutive(পর পর) number from 001-999 (must not accept 000)
- vi. then, an operator + or - or empty(null)

Accept	Not Accept
KARIM@UIU1415+ NAHID\$UIU3110- JACK#UIU2001	KARIM#N1455 NAHID@UIU1000 JACK\$UIU0125 1JACK#UIU2001 Jack@UIU2001 NAHID\$UIU3110*B

- [2] Create a menu with Option 1 would run the regular expression program below and Menu [10]
Option 2 will close the program. Put the entire code in an infinite while loop. Write a program to execute a regular expression that will accept a string with the following criteria. **You are not allowed to use any Regular Expression related library functions.**

- i. Smart with " (double quote)
- ii. Then, an odd (বিজোড়) number with 3 digit
- iii. Then, any one of these two boolean word "true" or "false"(in small characters)
- iv. Then, 2 consecutive capital characters(without special characters)
- v. Then, 2 consecutive small characters(without special characters)
- vi. Then, last 3 digit of your id
- vii. End with " (double quote)

Accept	Not Accept
"131falseAAaa133" "725trueHGbc224" "627falseUYcc720"	"132falseAAaa133" 725trueHGbc224 "627karimUYcc720" "627falseUYCA720"