

**Assignment-1 | Fall2023 | Marks-10 | Week-1 = Understanding , Week-2 = Progress Demonstration and Q/A , Week-3 = Final Submission**

In this assignment, we will learn regular expressions or in short, Regex. We will do 5 different regex problems very similar to each other and combine them to a single code ultimately. We will use a menu which will have a range 1 to 6, 1-5 for different regex and 6 for exit. We will of course keep the entire code in an infinite while or for loop so that we can run the program and reuse specific regex. Try to keep each regex in each user-defined function and will call the functions based on menu selection. Good luck!

1. Validate a password using the following criteria:

i)	starts with the word "PAS" in capital characters	<b>Valid</b>
ii)	contains at least 10 characters	PASandPd@adn
iii)	contains at least one special character	PAS1261436436#
iv)	no consecutive characters can be used.	PAS@1a2a1f2158

2. Validate UIU CSE/EEE/BBA faculty email address.

Valid
nahid@cse.uiu.ac.bd
ibc@eee.uiu.ac.bd
rahim@bba.uiu.ac.bd

3. Validate the following string using the following criteria:

i)	start with your actual first name in capital characters	<b>Valid</b>
ii)	then, three digits in range 300-400	KHALED350CSE+a
iii)	then, a word "CSE" or "UIU" or "COM"	KARIM301UIU-z
iv)	then, an operator + , - or nothing	RAHIM400COMz
v)	end with a single letter(small letter) only.	

4. Validate the following string using the following criteria:

i)	Start with @ or #	<b>Valid</b>
ii)	Then, an even number with 3 digits	@132abc1A133gmail.com
iii)	Then, 3 consecutive small letters(without special characters)	#754pqr0B224gmail.com
iv)	Then, any one of these two boolean word "0" or "1"	@626xyz1C720gmail.com
v)	Then, 1 capital character(without special characters)	
vi)	Then, last 3 digits of your student id (i.e. for id 011173252 , 252 would be last 3 digits)	
vii)	End with the string "gmail.com"	

5. Validate UIU student ID.

i)	consider department CSE, BBA, EEE and CS.	<b>Valid</b>
ii)	consider year 2005 to 2022	011201222
		111213111
		021192555