

Assignment-1 | Spring 2022 | 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	<table><tr><th>Valid</th></tr><tr><td>PASandPd@adn</td></tr><tr><td>PAS1261436436#</td></tr><tr><td>PAS@1a2a1f2158</td></tr></table>	Valid	PASandPd@adn	PAS1261436436#	PAS@1a2a1f2158
Valid						
PASandPd@adn						
PAS1261436436#						
PAS@1a2a1f2158						
ii)	contains at least 10 characters					
iii)	contains at least one special character					
iv)	no consecutive characters can be used.					

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	<table><tr><th>Valid</th></tr><tr><td>KHALED350CSE+a</td></tr><tr><td>KARIM301UIU-z</td></tr><tr><td>RAHIM400COMz</td></tr></table>	Valid	KHALED350CSE+a	KARIM301UIU-z	RAHIM400COMz
Valid						
KHALED350CSE+a						
KARIM301UIU-z						
RAHIM400COMz						
ii)	then, three digits in range 300-400					
iii)	then, a word "CSE" or "UIU" or "COM"					
iv)	then, an operator + , - or nothing					
v)	end with a single letter(small letter) only.					

4. Validate the following string using the following criteria:

i)	Start with @ or #	<table><tr><th>Valid</th></tr><tr><td>@132abc1A133gmail.com</td></tr><tr><td>#754pqr0B224gmail.com</td></tr><tr><td>@626xyz1C720gmail.com</td></tr></table>	Valid	@132abc1A133gmail.com	#754pqr0B224gmail.com	@626xyz1C720gmail.com
Valid						
@132abc1A133gmail.com						
#754pqr0B224gmail.com						
@626xyz1C720gmail.com						
ii)	Then, an even number with 3 digits					
iii)	Then, 3 consecutive small letters(without special characters)					
iv)	Then, any one of these two boolean word "0" or "1"					
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.	<table><tr><th>Valid</th></tr><tr><td>011201222</td></tr><tr><td>111213111</td></tr><tr><td>021192555</td></tr></table>	Valid	011201222	111213111	021192555
Valid						
011201222						
111213111						
021192555						
ii)	consider year 2005 to 2022					

