

## Lab 5.

### Topic: Regular expressions

Task: A file is given with the ACIT4420 course students data (taken from Canvas). Write regular expressions to find all matches for the following values:

- Find all standard oslomet students email (format example: [s123456@oslomet.no](mailto:s123456@oslomet.no) or [s1234567@oslomet.no](mailto:s1234567@oslomet.no))
- Find all emails (format e.g: [username@subdomain.domain.tld](mailto:username@subdomain.domain.tld))
- Find the last activity time of all students (consider the following formats: 14 Sep at 8:30, 14 Sep at 18:30, 4 Sep at 18:30, 14 Aug at 8:30)
- Find the sys ids of the students (formats: fs:215:123456, fs:215:1234567)
- Find the total activity time of the users on Canvas (format: 50:10:44, 05:10:44, 10:44)
- Find the names of the Students (consider space and dash as separator, a full name can consist 2 to 5 names e.g. Junior Jan-Claude Van Damme)
- Find all users with name where the user activity was more than 10 hours
- Find all users with name where the last user login was in August

Please use only the findall expression for each task, you cannot modify the findall output (everything should be done in one step). Write a short explanation for each subtask.

Required output:

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['s351656@oslomet.no', 's356528@oslomet.no', 's350141@oslomet.no', 's326326@oslomet.no',  
's341354@oslomet.no', 's341358@oslomet.no', 's309854@oslomet.no', 's341474@oslomet.no',  
's349771@oslomet.no', 's326609@oslomet.no', 's326151@oslomet.no', 's348572@oslomet.no',  
's236646@oslomet.no', 's188110@oslomet.no', 's329926@oslomet.no', 's171212@oslomet.no',  
's325909@oslomet.no', 's319478@oslomet.no', 's341460@oslomet.no', 's166126@oslomet.no',  
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['Pernille Aaby', 'Sushil Acharya', 'IOANNIS ADAMOPOULOS', 'Cato Hilmi Akay', 'Alyaa Abdulkhaleq  
Abduljabbar Al-Jasim', 'Anantha Padmanaban Balasubramanian', 'Abdifatah Ali Bashi', 'Houda  
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'Nicklas Risan Dahl', 'Kassahun Gedlu Degena', 'Solomon Legesse Desalegn', 'Sujan Devkota', 'Marta  
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'Fredrik Haugerud Pedersen', 'Darius Grigore Pop', 'Nourhan Ragab', 'Olav Hartvig Breivik Rui', 'Maria  
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Zolfagharieljalmanesh']

['Sushil Acharya', 'IOANNIS ADAMOPOULOS', 'Alyaa Abdulkhaleq Abduljabbar Al-Jasim', 'Bo Magnus Bratsberg', 'Nicklas Risan Dahl', 'Marta Ewa Dubas', 'Lars Iver Erdal-Aase', 'Felix Fritz', 'Vasavi Ganugapeta', 'Robel Michael Gebregergis', 'Mhd Tarek Mhd Roshdi Ghazal', 'Tom Glover', 'Alexander William Ingvarsson Hals', 'Marius Hornslien', 'Christian Ruben Alexander Jahren', 'Elias Khan', 'Thomas Leirvik', 'Nora Alexandra Cordasevschi Marcoux', 'Joyce Ndalaye', 'Rabin Parajuli', 'OMID PARSA MEHR', 'Nourhan Ragab', 'Olav Hartvig Breivik Rui', 'Samaneh Taghizadeh', 'Beebu Nisha Yasar Arafath', 'Syeda Ambreen Yawar']

['Anantha Padmanaban Balasubramanian', 'Lars Iver Erdal-Aase', 'John Inge Erlandsen', 'Solvor Horrig Helland', 'Rameen Jamshaid Khan', 'Boushra Kolko', 'Piotr Jan Kusnierz', 'Monica Sofie Larsen', 'Anis Yazidi']