

ITM (SLS) Baroda University
School of Computer Science, Engineering and Technology
Syllabus
Semester 2

Course Name: Programming in Python-II

Course Code: C22X0C4

Course Type: Core

Lab Experiments: Unit 3 - Regex

1. Write a Python Program which matches a string which starts with "In" followed by any two characters and end with "nt"
2. WAPP that checks if the string starts with "My"
3. WAPP that checks if the string "Mike likes his new bike" contains "ike" followed by 0 or more "s" characters.
4. WAPP that checks if the string "Toss the glass, boss" contains "os" followed by 0 or more "s" characters.
5. WAPP that checks if the string "Mike likes his new bike" contains either "likes" or "dislikes"
6. WAPP that checks if the string "Mike likes his new bike" contains "ike" at the end of the word.
7. WAPP that checks if the string "Toss the glass, boss" contains "ss" but not at the beginning of the word.

8. WAPP which checks whether the string contains any digits.
9. Write a Python program that matches a string which contains an 'x' followed by anything, ending in 'y'.
10. Write a Python program that matches a string that has an 'a' followed by three 'b'.
11. Write a Python program that matches a string that has an 'a' followed by two to three 'b'.
12. Write a Python program to find sequences of lowercase letters joined with an underscore.
13. Write a Python program to find all the numbers present in a given string entered by the user using regular expression.

Input: "Hello 100 Hii 500, How is your day 134"

Output: ['100', '500', '34']

14. Input:

Shika scored 345 marks, Sonam scored 320 marks,

Shuchi scored 315 marks, Divya scored 335 marks

Shraddha scored 350 marks

Shuchi scored 323 marks

Output:

```
['345', '320', '315', '335', '350', '323']  
['Shika', 'Sonam', 'Shuchi', 'Divya', 'Shraddha', 'Shuchi']  
{'Shika': '345', 'Sonam': '320', 'Shuchi': '323', 'Divya': '335', 'Shraddha': '350'}
```

15. Input:

"Python Exam is on 27/05/21 and data structure is on 12/06/21, CG on 31/12/21 and C on 03/01/21"

Output:

```
['27/05/21', '12/06/21', '31/12/21', '03/01/21']
```

16. Input:

<https://www.google.com/news/football-insider/wp/2021/03/05/odell-beckhams-fame-rests-on-one-stupid-little-ball-josh-norman-tells-author/>

Output:

```
[('2021', '03', '05')]
```

17. Input:

"Mani roll no 101 with id mani.butwall@itmbu.ac.in, Sonam roll no 102 with id sonam23@gmail.com, Shuchi roll no 103 with id shuchi234@gmail.com,

Divya roll no 104 with id divya.patel@yahoo.com, Shraddha roll no 105 with id shr222@yahoo.co.in, Shuchi roll no 106 with id shuchi2021@rediffmail.in"

Output:

```
Roll No. are: [' 101 ', ' 102 ', ' 103 ', ' 104 ', ' 105 ', ' 106 ']  
Names of candidates are: ['Mani', 'Sonam', 'Shuchi', 'Divya', 'Shraddha', 'Shuchi']  
Mail ID: ['mani.butwall@itmbu.ac.in', 'sonam23@gmail.com', 'shuchi234@gmail.com',  
'divya.patel@yahoo.com', 'shr222@yahoo.co.in', 'shuchi2021@rediffmail.in']  
Dictionary for Rollno and Email: {' 101 ': 'mani.butwall@itmbu.ac.in', ' 102 ':  
'sonam23@gmail.com', ' 103 ': 'shuchi234@gmail.com', ' 104 ': 'divya.patel@yahoo.com',  
' 105 ': 'shr222@yahoo.co.in', ' 106 ': 'shuchi2021@rediffmail.in'}  
Dictionary for Names and Email: {'Mani': 'mani.butwall@itmbu.ac.in', 'Sonam':  
'sonam23@gmail.com', 'Shuchi': 'shuchi2021@rediffmail.in', 'Divya':  
'divya.patel@yahoo.com', 'Shraddha': 'shr222@yahoo.co.in'}  
Dictionary for Names and Roll No: {'Mani': ' 101 ', 'Sonam': ' 102 ', 'Shuchi': ' 106 ',  
'Divya': ' 104 ', 'Shraddha': ' 105 '}
```