ASSIGNMENT 3

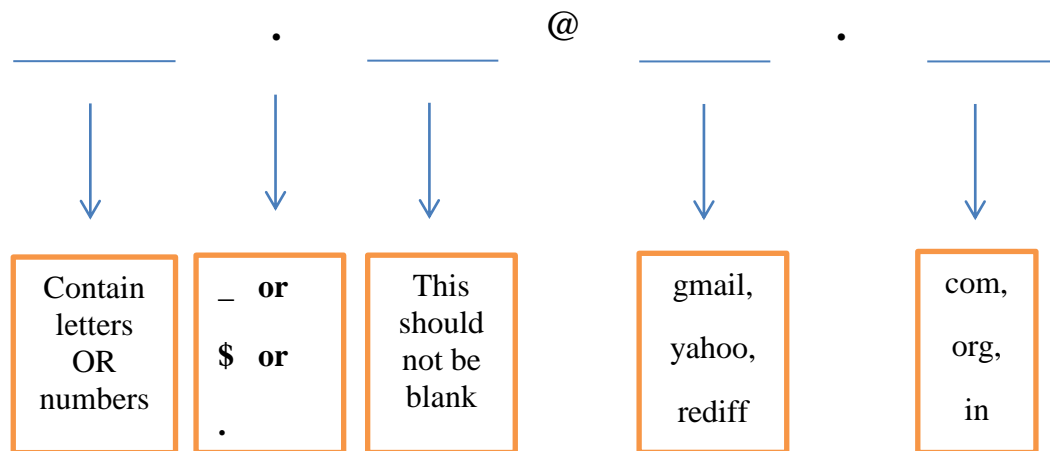**PATTERN MATCHING VIA REGULAR EXPRESSIONS IN PYTHON**

Q1   Write a regular expression code in Python that matches the full name of   [3M]
someone whose last name is Kapoor.
You can assume that the first name that comes before it will always be one
word that begins with a capital letter. The regex must match the following:
- 'Santosh Kapoor '
- 'Anisha Kapoor '
- 'Rohan Kapoor '

but not the following:
- 'santosh Kapoor ' (where the first name is not capitalized)
- 'Mr. Kapoor ' (where the preceding word has a nonletter character)
- ' Kapoor ' (which has no first name)
- 'Santosh kapoor ' (where Kapoor is not capitalized)

Q2   Design a Python program with single regular expression which will accept   [2M]
DATE as an input from user in any of the below format:
- DD/MM/YYYY
- DD/MM/YY
- DD-MM-YYYY
- DD-MM-YY

(NOTE: The date entered by user should be in the above format only. Formats
like DD/MM or DD-MM should not be allowed.)

Q3   Design a Python program with regular expressions which will accept email-id   [5M]
and password from the user.

Validations for email-id:

    i.   Should begin with letter.

    ii.   On the LHS of @, underscore (_) and dot (.) is valid but there should be some letters in between them.

    iii.   There should not be dot (.) immediately next to @.

Sample Structure of email-id:

Validations for Password:

    i.   Password should begin with single capital letter followed by three to four small letters.

    ii.   Post small letters , it should only accept special symbols like @ , $, _

    iii.   Followed by two to three digits.

Valid password:

Abcd@123

Invalid password:

Acbs5

abcd<>as1