

Regular Expression

Program

1. Assuming that we have some email addresses in the "username@companyname.com" format, please write program to print the user name of a given email address.

Both user names and company names are composed of letters only.

2. "Write a program to check the validity of password input by users. Following are the criteria for checking the password:

1. At least 1 letter between [a-z]
2. At least 1 number between [0-9]
1. At least 1 letter between [A-Z]
3. At least 1 character from [\$#@]
4. Minimum length of transaction password: 6
5. Maximum length of transaction password: 12

Your program should accept a sequence of comma separated passwords and will check them

according to the above criteria.

Passwords that match the criteria are to be printed, each separated by a comma."

Hint(Q5): "Example If the following passwords are given

as input to the program:

ABd1234@1,a F1#,2w3E*,2We3345

Then,the output of the program should be:

ABd1234@1"

3. WAP to validate IP address
4. WAP to validate Date
5. WAP to validate MAC address
6. WAP to validate URL

7. WAP to read a file and collect all ip address in it

Hint(Q7): "File contain:

```
192.168.1.1 user name abc password 123hhc          router 1
12.1.2.1 username xyz password abb12                router2
10.1.1.2 username xxa password aabba"               route3
```

8. WAP to extract all routes along with mask from the routing table output.

Hint(Q8): "show_ip_route_data = ""Codes: C -

connected, S - static, R - RIP, M

- mobile, B - BGP

EIGRP external, O - OSPF, IA - OSPF inter area

external type 1, N2 - OSPF NSSA external type 2

type 1, E2 - OSPF external type 2

IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2

D - EIGRP, EX -

N1 - OSPF NSSA

E1 - OSPF external

i - IS-IS, su - IS-

ia - IS-IS inter
 area, * - candidate default, U - per-user static route
 o - ODR, P -
 periodic downloaded static route

Gateway of last
 resort is not set

is subnetted, 1 subnets		10.0.0.0/24
[110/2] via 12.1.1.1, 00:38:51, FastEthernet0/0	O IA	10.1.1.0
is subnetted, 1 subnets		11.0.0.0/24
[110/3] via 12.1.1.1, 00:38:51, FastEthernet0/0	O IA	11.1.1.0
is subnetted, 1 subnets		12.0.0.0/24
is directly connected, FastEthernet0/0	C	12.1.1.0
is subnetted, 1 subnets		14.0.0.0/24
[110/11] via 12.1.1.1, 00:38:51, FastEthernet0/0"""	O	14.1.4.0

Output should
 have all IP addresses and mask"
 9. WAP that takes IP address as input and check if the route for the
 same
 is present or not from above data
 10. WAP to read a file and collect all email addresses
 Hint(Q10): "The file may contain

many lines	This file contain
contact hck@tech.com for	Some lines have
contact kkc12@nic.com	all others
contain email address	the file also
gma!12@gmail.com"	like