1. Write a python program to accept mobile number and validate it. it should contain exactly 10 digits. (use regularexpression---→ \d{10} -- it will match 10 digit number 2. Create a file productdata.txt, using notepad and add contents in following format Id:name:description:category:price

For example

123:lays:very crispy:chips:40

124:Good day:very sweet:biscuits:35

125:maggi:yummy:snacks:60

225:chings:yummy:snacks:65

123:nachos:very crispy:chips:120

a. Write a python program read data from file productdata.txt, copy all the lines starting with 12 and ending with 0 in file myproduct.txt

(use regular expression ^12.\*0$)

b. Write a python program to find sum of prices for each category

Example the o/p should be as follows

Chips-→160

Biscuits-→35

Snacks-→125

(hint : use dictionary)

c. Write a python program to accept category from user, display all products of the given category Example

if category given is chips then use regular expression :chips:

if category given is chips then use regular expression :snack:

generate patter :<givencategory name>: and use it for finding lines of the given category