

1. Write a python program to accept mobile number and validate it. it should contain exactly 10 digits. (use regular expression---→ `\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