

Assignment 4Two problems

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Problem 1

- Accept integer numbers from the user till the user gives q or Q.
- Maintain a list of odd, even and prime numbers and append the numbers entered into one of the lists you maintain.
- When the user gives Q or q, then print all the contents of the lists.

Sample inputs and expected outputs are given below

Keep giving integer numbers, then q or Q to quit. **Output:** Input an integer or q or Q to quit: 1 Input an integer or q or Q to quit: 2 **List of Prime numbers entered:**

Input an integer or q or Q to quit: 3 [2, 3, 5, 7]

Input an integer or q or Q to quit: 4

Input an integer or q or Q to quit: 5 [1, 9]

Input an integer or q or Q to quit: 6

Input an integer or q or Q to quit: 7

Input an integer or q or Q to quit: 8

Input an integer or q or Q to quit: 9

Input an integer or q or Q to quit: 10

Input an integer or q or Q to quit: q

List of Odd numbers entered:

List of Even numbers entered:

[4, 6, 8, 10]

Note: sympy module has isprime() function.

Problem 2 ... see next page too

Note: The messages to be printed need not be exactly what are given here ...

- Accept Full names and nicknames of your friends and store it in your dictionary.
- When the dictionary is queried with the nickname, give the full name.
- First take as much of full names and nicknames, till q or Q is given.
- Then allow the users to query the dictionary by giving nicknames, till q or Q is given.

Sample inputs and expected outputs are given below

Get your friend's nick name!!!
Give q or Q to stop giving the name
You can give your friend's nick name
I will give you his or her full name!!!
At any time you can give q or Q to quit

Give full name of your friend: Aishwarya Rai

Give nick name of this friend now: Ash At any time you can give q or Q to quit Give full name of your friend: q

Give full name of your friend: Amitabh Bachchan

Give nick name of this friend now: Big B At any time you can give q or Q to quit

Give full name of your friend: Rajesh Khanna

Give nick name of this friend now: Kaka At any time you can give q or Q to quit Note: Your friends may be different from mine too ©

Problem 2 ... contd.

Sample inputs and expected outputs are given below

Now, you can query me to get the full name

by giving your friend's nick name At any time you can give q or Q to quit Give the nick name of your friend: Ash Your friend's full name is:

Aishwarya Rai

Now, you can query me to get the full name by giving your friend's nick name At any time you can give q or Q to quit Give the nick name of your friend: Kaka Your friend's full name is:

Rajesh Khanna

Now, you can query me to get the full name by giving your friend's nick name At any time you can give q or Q to quit Give the nick name of your friend: Big B
Your friend's full name is:
Amitabh Bachchan
Now, you can query me to get the full name
by giving your friend's nick name
At any time you can give q or Q to quit

Give the nick name of your friend: q Ok, bye bye ...