

# **Python Assignment**

- Make sure you attempt both the questions.
- Please use the below mentioned form for the submission of your assignment. You need to upload your work on Github and mention the repo link here in this form-  
[https://docs.google.com/forms/d/e/1FAIpQLSdOpS7dUEf5c3K2t\\_94GISi7DGNJcgoNhl2npQWZ9bawfqeWg/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdOpS7dUEf5c3K2t_94GISi7DGNJcgoNhl2npQWZ9bawfqeWg/viewform?usp=sf_link)

## **1- Print the following patterns with a py script -**

```
      *
     * *
    * * *
   * * * *
  * * * * *
```

A

B C

D E F

G H I J

K L M N O

## **2- Problem Statement :**

Make a Grocery List for supermarket shopping with name, price and quantity; if the list already contains an item then only update the price and quantity it should not append the item name again. Ask the user his/her budget initially and minus the budget after adding a new item in the list. If budgets go zero/0 then no more items could be bought and if some money left and users add items greater than budget left then inform "over price" or any other message. After the list is made any money left in

the budget it should show an item within the budget from the list made.VALIDATION is a must.

Examples:

User GO with following question

Enter Your budget : 500

1.Add an item

2.Exit

Enter your choice : 1

Enter product : corn flour

Enter quantity : 1.5 kg

Enter Price : 100

Amount left : 400

1.Add an item

2.Exit

Enter your choice : 1

Enter product : wheat

Enter quantity : 2 kg

Enter Price : 100

Amount left : 300

1.Add an item

2.Exit

Enter your choice : 1

Enter product : corn flour

Enter quantity : 2 kg

Enter Price : 250

Amount left : 150

1.Add an item

2.Exit

Enter your choice : 1

Enter product : rice

Enter quantity : 5 kg

Enter Price : 300

Can't Buy the product ###(because budget left is 150)

1.Add an item

2.Exit

Enter your choice : 1

Enter product : xyz

Enter quantity : 1 kg

Enter Price : 50

Amount left : 100

1.Add an item

2.Exit

Enter your choice : 2

Amount left can buy you wheat

GROCERY LIST is:

Product name	Quantity	Price
corn flour	2 kg	250
wheat	2 kg	100
xyz	1 kg	50