

REC

```
In [2]: 1 def student_details(number_of_students):
2         student_name = {}
3         for i in range(0, number_of_students):
4             name = input("Enter the Name of the Student ")
5             registration_number = input("Enter student's Registration Number ")
6             total_marks = input("Enter student's Total Marks ")
7             student_name[name] = [registration_number, total_marks]
8         student_search = input("Enter name of the student you want to search ")
9         if student_search not in student_name.keys():
10            print("Student you are searching is not present in the class")
11        else:
12            print("Student you are searching is present in the class")
13            print(f"Student's Registration Number is {student_name[student_search][0]}")
14            print(f"Student's Total Marks is {student_name[student_search][1]}")
15
16        number_of_students = int(input("Enter the number of students "))
17        student_details(number_of_students)

Enter the number of students 2
Enter the Name of the Student aman
Enter student's Registration Number ec21
Enter student's Total Marks 68
Enter the Name of the Student aman
Enter student's Registration Number ec32
Enter student's Total Marks 45
Enter name of the student you want to search aman
Student you are searching is present in the class
Student's Registration Number is ec32
Student's Total Marks is 45

In [10]: 1 from functools import reduce
2
3 marks=[5,4,6,3,4,6,5,9]
4 print("marks=",marks)
5 odd_marks=list(filter(lambda x:x%2!=0,marks))
```

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The screenshot shows a Jupyter Notebook interface. At the top, there's a browser address bar with the URL `localhost:8888/notebooks/Python%20Jupyter/Additional%20progs.ipynb`. Below the address bar, the notebook title is "Additional progs" with a status "Last Checkpoint: Last Wednesday at 11:21 AM (unsaved changes)". The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for file operations, running code, and viewing output. The main area displays a list of tasks:

- Enter student's registration number ec102
- Enter student's Total Marks 40
- Enter the name of the Student ashwin
- Enter student's Registration Number ec104
- Enter student's Total Marks 50
- Enter name of the student you want to search akshay
- Student you are searching is present in the class
- Student's Registration Number is ec102
- Student's Total Marks is 30

Below the tasks, there are two code cells. The first cell, labeled "In [10]:", contains Python code using `functools.reduce` to calculate the sum and average of a list of marks, and to filter odd marks.

```

1 from functools import reduce
2
3 marks=[5,4,6,3,4,6,5,9]
4 print("marks=",marks)
5 odd_marks=list(filter(lambda m:m%2,marks))
6 print("odd_marks=",odd_marks)
7 extra_marks=list(map(lambda p:p*1,marks))
8 print("extra_marks=",extra_marks)
9 sum=reduce(lambda a,b:a+b, marks)
10 average=sum/len(marks)
11 print("sum=", sum,"average", average)

```

The output of this code cell shows the marks list, the filtered odd marks, the extra marks list, the total sum, and the average.

```

marks= [5, 4, 6, 3, 4, 6, 5, 9]
odd_marks= [5, 3, 5, 9]
extra_marks= [5, 5, 7, 4, 5, 7, 6, 10]
sum= 42
average 5.25

```

The second code cell, labeled "In []:", contains a simple loop that prompts the user to enter a number and checks if it's available in a list of chocolates.

```

1 available=10
2 num=int(input("Enter "))
3
4 i=1
5 while i<=num:
6     if i>available:
7         print('out of stock')
8         break
9     print("Chocolates")
10    i=i+1

```

The output of this code cell shows the prompt "Enter " and the subsequent "Chocolates" output for each iteration of the loop.

At the bottom of the screen, there's a taskbar with various application icons and a system clock showing "PM 12:44 23-10-2020".



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The screenshot shows a Jupyter Notebook window with the following code:

```
In [3]: 1 from colorama import Fore
2 def Pattern_P():
3     for row in range(7):
4         for col in range(5):
5             if col==0 or (col==4 and (row==1 or row==2)) or (row==0 or row==3) and (col==0 and col==4):
6                 print(f"{Fore.BLUE}$",end=" ")
7             else:
8                 print(" ",end=" ")
9         print()
10 def Pattern_Y():
11     for row in range(7):
12         for col in range(5):
13             if (col==2 and row==1) or ((row==col and col==2) or (row==0 and col==4) or (row==1 and col==3)):
14                 print(f"{Fore.YELLOW}$",end=" ")
15             else:
16                 print(" ",end=" ")
17         print()
18
19 Pattern_P()
20 Pattern_P()
21 Pattern_Y()
```

The output of the code is a 7x7 grid of dollar signs. The first two rows are printed with blue dollar signs, and the last row is printed with yellow dollar signs. The pattern is as follows:

```
$ $ $ $ $
$ $ $ $ $
$ $ $ $ $
$ $ $ $ $
$ $ $ $ $
$ $ $ $ $
$ $ $ $ $
```

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```
4 at str[i] in ('a','e','i','o','u','A','E','I','O','U'):  
5     vowels += 1  
6 elif "a" < str[i] < "z" or "A" < str[i] < "Z":  
7     consonants += 1  
8 elif str[i] == " ":  
9     blanks += 1  
10 print(f"Total Vowels in user entered string is {vowels}")  
11 print(f"Total Consonants in user entered string is {consonants}")  
12 print(f"Total Blanks in user entered string is {blanks}")  
13  
  
In [ ]: 1 evn,odd,x,y=0,0,0,1  
2 print("Fibonacci series between the interval 6 and 98 are ")  
3 for num in range(99):  
4     x,y = y,x+y  
5     if 6<y<98:  
6         print(y)  
7         if y%2==0:evn+=1  
8         else: odd+=1  
9     print("Odd num Count", odd,'\n' "Even num Count",evn)  
  
In [14]: 1 num = int(input("Display multiplication table of? "))  
2 p = int(input("upper limit? "))  
3 q = int(input("lower limit? "))  
4 for i in range(q, p):  
5     print(num, 'x', i, '=', num*i)  
6  
Display multiplication table of? 2  
upper limit? 32  
lower limit? 4  
2 x 4 = 8  
2 x 5 = 10  
2 x 6 = 12  
2 x 7 = 14  
2 x 8 = 16  
2 x 9 = 18  
2 x 10 = 20
```



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The screenshot displays a Jupyter Notebook titled "Additional progs" with a last checkpoint from Wednesday at 11:21 AM. The notebook contains two code cells. The first cell, labeled "In [0]:", contains a Python script that calculates the Fibonacci series between 2 and 1000, counts the number of odd and even numbers, and prints the results. The output shows the Fibonacci series and the counts: Odd num Count 9 and Even num Count 4. The second cell, labeled "In [14]:", contains a prompt for a multiplication table, which has not yet been executed.

```
11 print(f"Total Consonants in user entered string is {consonants}")
12 print(f"Total Blanks in user entered string is {blanks}")
13

In [0]: 1 lowlimit=2
        2 upperlimit=1000
        3 evn,odd,x,y=0,0,0,1
        4 print("Fibonacci series between the interval 2 and 1000 are ")
        5 for num in range(99):
        6     x,y = y,x+y
        7     if lowlimit<=upperlimit:
        8         print(y)
        9         if y%2==0:evn+=1
        10        else: odd+=1
        11 print("Odd num Count", odd,'\n' "Even num Count",evn)

Fibonacci series between the interval 2 and 1000 are
3
5
8
13
21
34
55
89
144
233
377
610
987
Odd num Count 9
Even num Count 4

In [14]: 1 num = int(input("Display multiplication table of? "))
        2 p = int(input("Upper limit? "))
        3 q = int(input("lower limit? "))
        4 for i in range(q, p):
```



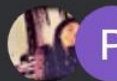
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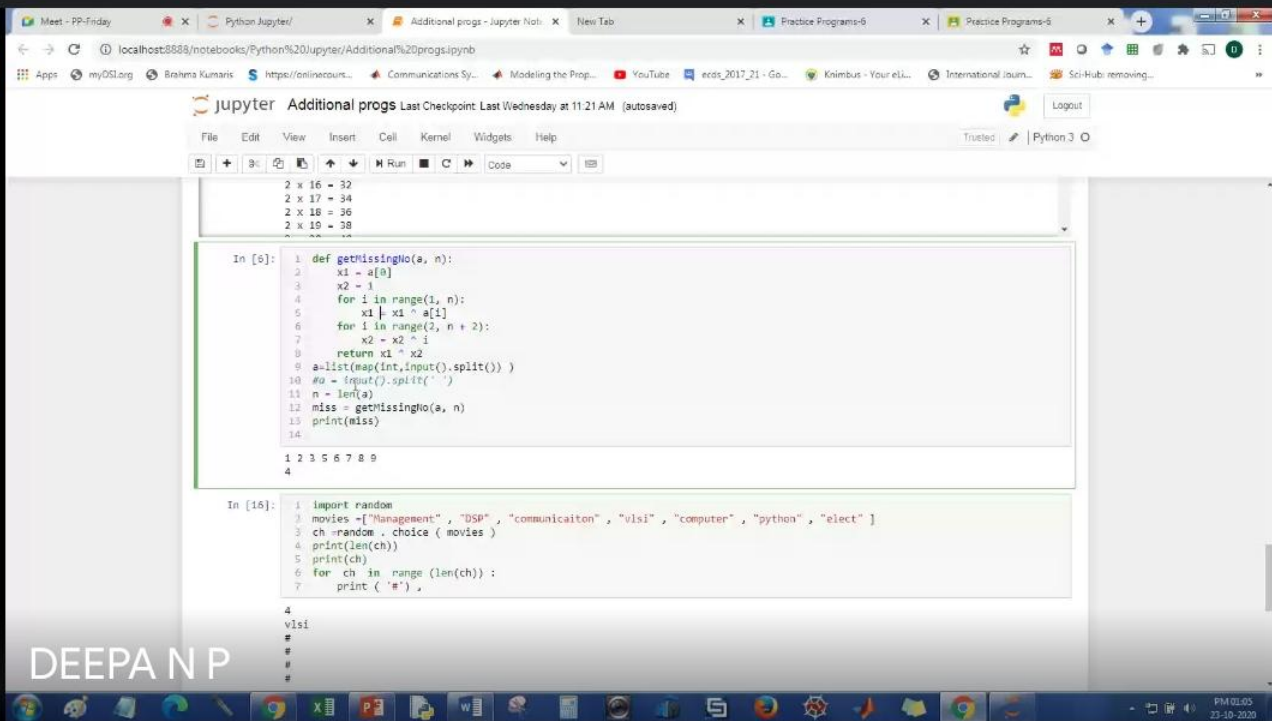


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```
def getMissingNo(a, n):  
    x1 = a[0]  
    x2 = 1  
    for i in range(1, n):  
        x1 = x1 + a[i]  
        for i in range(2, n + 2):  
            x2 = x2 + i  
    return x1 - x2  
a = list(map(int, input().split()))  
# a = input().split(' ')  
n = len(a)  
miss = getMissingNo(a, n)  
print(miss)  
1 2 3 5 6 7 8 9  
4  
  
import random  
movies = ["Management", "DSP", "communication", "vlsi", "computer", "python", "elect"]  
ch = random.choice(movies)  
print(len(ch))  
print(ch)  
for ch in range(len(ch)):  
    print(' '),  
    print(' ')  
print()  
vlsi  
#  
#  
#
```



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