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Subject: Python Programming

Class: BSIT Part 2 , 4th sem

Assignment 01

Task 1: Create a for loop, which count all the roll numbers from 1 to 48, but stops at your own roll number.

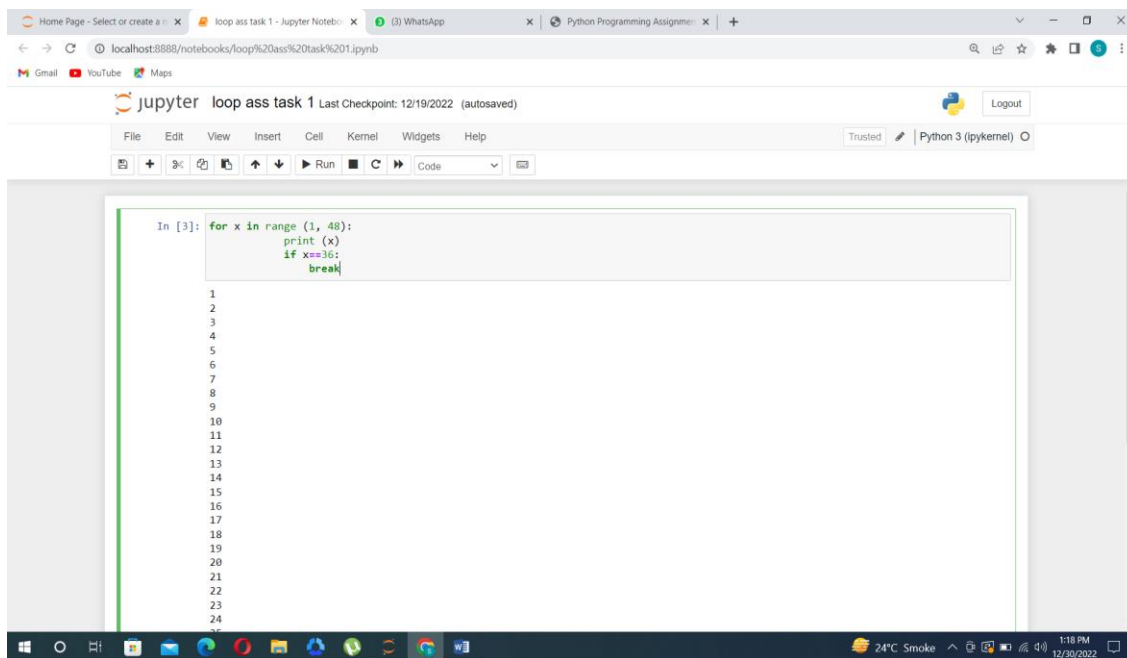
Code:

For x in range (1, 48):

 print (x)

 if x==36:

 break



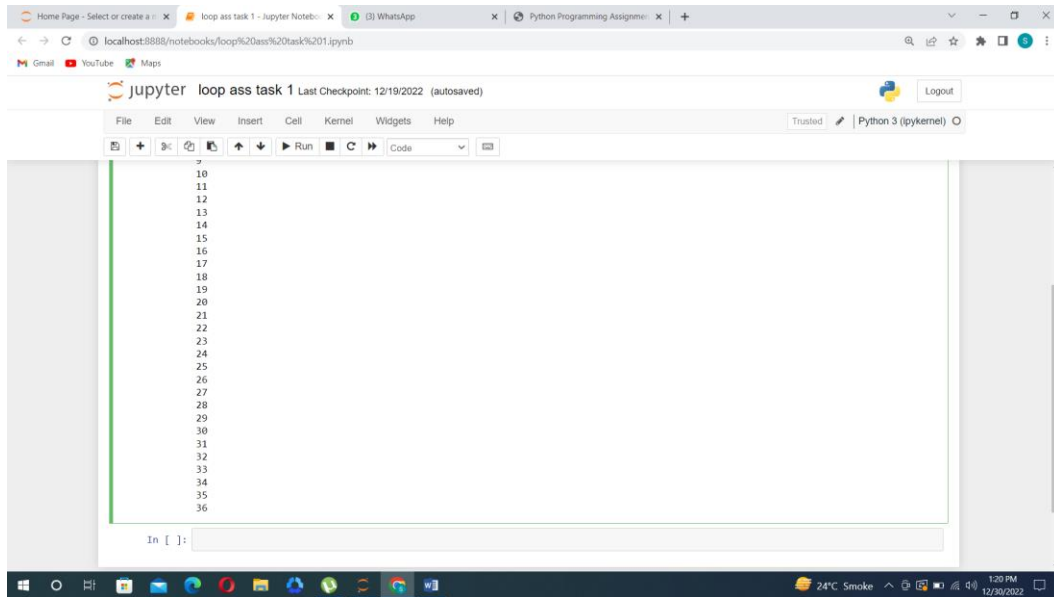
The screenshot shows a Jupyter Notebook interface with the following code in a cell:

```
In [3]: for x in range (1, 48):  
        print (x)  
        if x==36:  
            break
```

The output of the code is a list of numbers from 1 to 35, printed vertically:

```
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
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26  
27  
28  
29  
30  
31  
32  
33  
34  
35
```

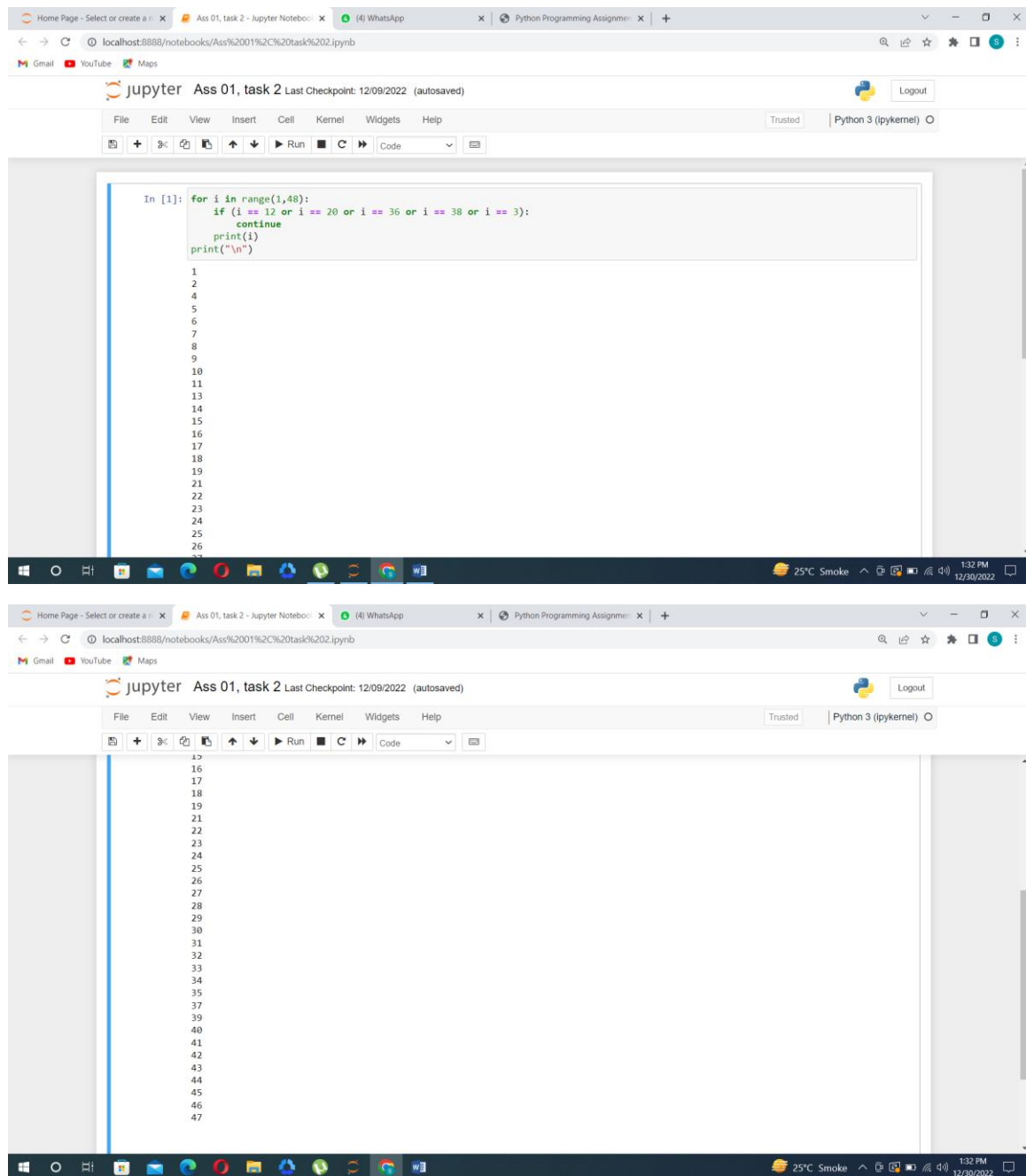
The Jupyter Notebook interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), a toolbar with icons for file operations and execution, and a status bar at the bottom showing the temperature (24°C) and time (1:18 PM, 12/20/2022).



Task 2: Create a loop which display all of the roll numbers from 1 to 48, but do not show five roll numbers of your friends.

Code:

```
for i in range(1,48):  
    if (i == 12 or i == 20 or i == 36 or i == 38 or i == 3):  
        continue  
    print(i)  
print("\n")
```

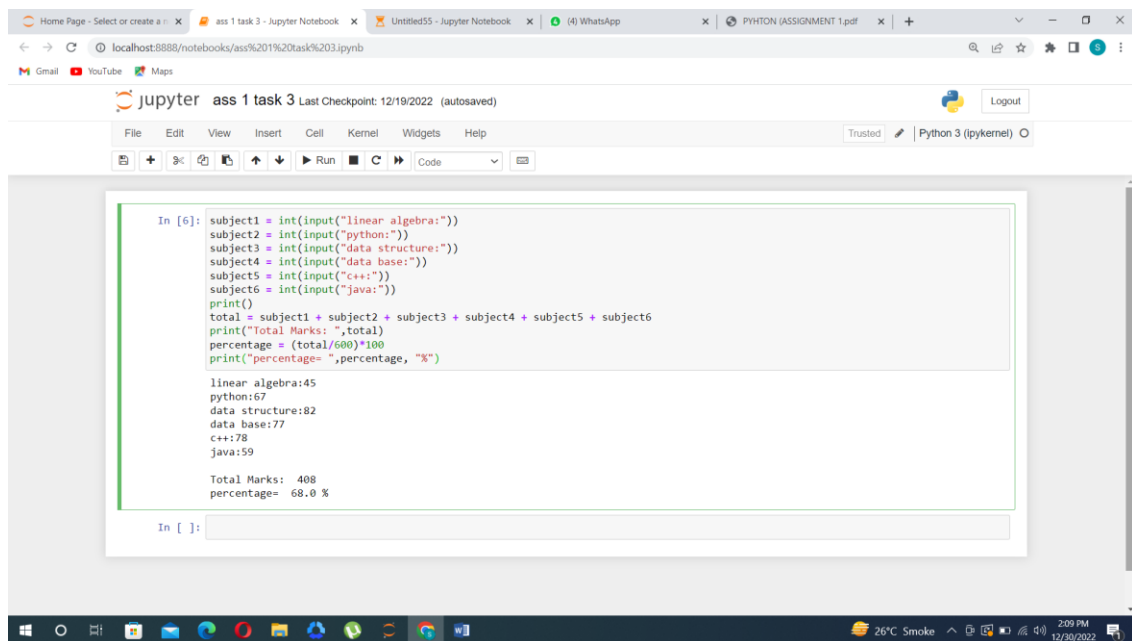


Task 3: Create a program with following sequence:

- A. Ask marks of 6 subjects from one student (use: input), student must have < 49 marks in at least one subject.
- B. Calculate percentage of student for only those subjects, having marks above 49.

Code:

```
subject1 = int(input("linear algebra:"))
subject2 = int(input("python:"))
subject3 = int(input("data structure:"))
subject4 = int(input("data base:"))
subject5 = int(input("c++:"))
subject6 = int(input("java:"))
print()
total = subject1 + subject2 + subject3 + subject4 + subject5 + subject6
print("Total Marks: ",total)
percentage = (total/600)*100
print("percentage= ",percentage, "%")
```



The screenshot displays a Jupyter Notebook window titled "ass 1 task 3" with a last checkpoint of 12/19/2022. The notebook contains a single code cell with the following Python code:

```
In [6]: subject1 = int(input("linear algebra:"))
subject2 = int(input("python:"))
subject3 = int(input("data structure:"))
subject4 = int(input("data base:"))
subject5 = int(input("c++:"))
subject6 = int(input("java:"))
print()
total = subject1 + subject2 + subject3 + subject4 + subject5 + subject6
print("Total Marks: ",total)
percentage = (total/600)*100
print("percentage= ",percentage, "%")
```

The output of the code is displayed below the code cell:

```
linear algebra:45
python:67
data structure:82
data base:77
c++:78
java:59

Total Marks: 408
percentage= 68.0 %
```

The Jupyter Notebook interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with various icons for file operations, running, and saving. The bottom status bar shows the system temperature (26°C), smoke status, and the date and time (2:09 PM, 12/30/2022).