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Q.1 Match the column:

Ans -

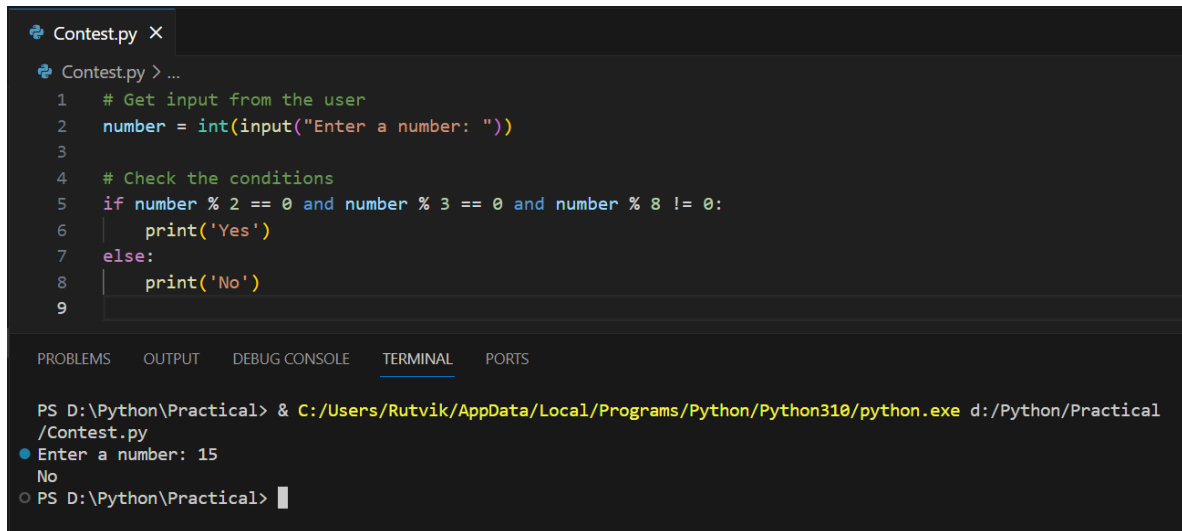
Float	→	20.3586
String	→	"156"
Python 3 Release date	→	3 December 2008
Full form of CWS	→	Coding With Sagar

Founder of python



Guido Van Rossum

Q.2 Ask a number from user. Print 'Yes' if the number is divisible by 2,3 but not 8. Otherwise print 'No'.



```
Contest.py X
Contest.py > ...
1  # Get input from the user
2  number = int(input("Enter a number: "))
3
4  # Check the conditions
5  if number % 2 == 0 and number % 3 == 0 and number % 8 != 0:
6      print('Yes')
7  else:
8      print('No')
9

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS D:\Python\Practical> & C:/Users/Rutvik/AppData/Local/Programs/Python/Python310/python.exe d:/Python/Practical/Contest.py
● Enter a number: 15
No
○ PS D:\Python\Practical> 
```

Q.3 Implement Rent Calculator in Python



The image shows a screenshot of a Python IDE with a file named 'Contest.py'. The code in the editor is as follows:

```
12
13 # Get input from the user
14 num_rooms = int(input("Enter the number of rooms: "))
15 cost_per_room = float(input("Enter the cost per room: "))
16
17 # Calculate total rent
18 total_rent = num_rooms * cost_per_room
19
20 # Print the result
21 print(f"The total rent for {num_rooms} rooms at ₹{cost_per_room:.2f} per room is: ₹{total_rent:.2f}")
22
```

Below the editor, the 'TERMINAL' tab is active, showing the execution of the script. The command used is:

```
PS D:\Python\Practical> & C:/Users/Rutvik/AppData/Local/Programs/Python/Python310/python.exe d:/Python/Practical/Contest.py
```

The output of the script is:

```
Enter the number of rooms: 20
Enter the cost per room: 4586
The total rent for 20 rooms at ₹4586.00 per room is: ₹91720.00
```

The prompt returns to the command line:

```
PS D:\Python\Practical>
```

Q.4 What have you learned since the start of this class till now, write the names of the topics and how was your overall experience in the class.

Q.5 Fill in the blanks:

a- An ordered set of instructions or commands to be executed by a computer is called a **Program** .

b-Full form of IDLE is **Integrated Development and Learning Environment**

c-**A Variable** is an identifier whose value can change.

d- 33 are reserve words.

Q.6 MCQ-

A- Which of the following is true about the code below?

```
x=3
```

```
if (x > 2): x = x* 2;
```

```
if (x > 4):
```

```
e
```

```
x = 0; print(x)
```

Ans - c. if x is greater than 2, x will equal 0 after this code executes

B-True is what type of variable?

Ans - c. Boolean

C-What is the output from the following code?

```
a=3 b = (a != 3)
```

```
print(b)
```

Ans – b. False

Q.7 An extra day is added to the calendar almost every four years as February 29, and the day is called a leap day. A leap year contains a leap day.

Two conditions are used to identify leap years:

If the year can be evenly divided by 4, it is then a leap year. But if year is evenly divided by 4 and also by 100, then it is NOT a leap year. But if year is evenly divided by 4 and also by 400, then it is a leap year.

This means the years 2000 and 2400 are leap years, while 1800, 1900, 2100, 2200, 2300 and 2500 are NOT leap years.

Ask a year input from user. And tell if the year entered by user is leap or not.



```
Contest.py X
Contest.py > ...
27 # Get input from the user
28 year = int(input("Enter a year: "))
29
30 # Check if it's a leap year
31 if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
32     print(f"{year} is a leap year.")
33 else:
34     print(f"{year} is not a leap year.")
35

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\Python\Practical> & C:/Users/Rutvik/AppData/Local/Programs/Python/Python310/python.exe d:/Python/Practical
./Contest.py
Enter a year: 2004
2004 is a leap year.
PS D:\Python\Practical>
```