

Contest:

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'

```
1 input_no = int(input("Enter a input number: "))
2
3 if input_no % 2 == 0 and input_no % 3 == 0 and input_no % 8 != 0: # logic for checking if number is divisible by 2 & 3 and not divisible by 8
4     print("Yes")
5 else:
6     print("No")
```

Q.3 Implement Rent Calculator in Python

```
1 print("Welcome to rent Calculator - Enter your upcoming expenses as shown below -")
2 house_rent = float(input("Enter your house rent amount: "))
3 utilities = float(input("Enter your utilities bill amount: "))
4 maintenance = float(input("Enter your maintenance amount: "))
5
6 total_rent = house_rent + utilities + maintenance # Addition of all expenses
7
8 print("Your total rent will be:", total_rent) # Final rent for next month
```

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.

Topics Learned --

-Introduction to programming, Software Installation, Comments, Variables, Data-types, Basic Python Programs, Operators, Types of operators, Conditional Statements ,If, else and elif, Logic buildup, etc.

Since the start of this class, I have learned various important topics related to programming using Python. The class started with an introduction to programming, which helped me understand the basics of programming and its importance in various fields. The next topic covered was software installation, which was crucial for setting up my development environment.

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

d- **Keywords** are reserve words.

Q.6 MCQ-

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

Ans: Below statements are true

b. True

c. True

B- c) Boolean

C – b) FALSE

Q.7

```
1 # Ask the user to input a year
2 year = int(input("Enter a year: "))
3
4 # Check if the year is divisible by 4
5 if year % 4 == 0:
6     # If the year is divisible by 100
7     if year % 100 == 0:
8         # If the year is divisible by 400, it is a leap year
9         if year % 400 == 0:
10             print(year, "is a leap year")
11         # If the year is not divisible by 400, it is not a leap year
12         else:
13             print(year, "is not a leap year")
14     # If the year is not divisible by 100 but is divisible by 4, it is a leap year
15     else:
16         print(year, "is a leap year")
17 # If the year is not divisible by 4, it is not a leap year
18 else:
19     print(year, "is not a leap year")
```

Q. 8

```
1 # Get the number of questions in the contest and the number of correct answers from the user
2 num_questions = int(input("Enter the number of questions in the contest: "))
3 num_correct = int(input("Enter the number of correct answers: "))
4
5 # Calculate the total marks earned by the contestant
6 total_marks = num_correct * 5
7
8 # Calculate the percentage of total marks earned by the contestant
9 percentage = (total_marks / (num_questions * 5)) * 100
10
11 # Determine the final grade based on the percentage of total marks earned
12 if percentage >= 91:
13     final_grade = "A"
14 elif percentage >= 81:
15     final_grade = "B"
16 elif percentage >= 71:
17     final_grade = "C"
18 elif percentage >= 61:
19     final_grade = "D"
20 else:
21     final_grade = "F"
22
23 # Display the total marks earned, percentage of total marks earned, and final grade
24 print("Total marks earned: ", total_marks)
25 print("Percentage of total marks earned: ", percentage, "%")
26 print("Final grade: ", final_grade)
```