Question 1:¶

There are two numbers given below. Print the sum of these numbers if their product is greater than 100. Otherwise, print their product.

a = 15

b = 12

Expected Output:

27

Question 2:

Write a Python program to print the volume of a cone whose height and diameter are given below. (Take pi = 3.14)

h = 10

d = 13

Expected Output:

442.21666666666664

Question 3:

We have the name and seat numbers of a student given below as two tuples. With this given data, print the students' names and their assigned seat numbers in a single line using the appropriate data type.

name = ('Shaun', 'Ron', 'Michael')

seat_numbers = (101, 102, 103)

Expected Output:

{'Shaun': 101, 'Ron': 102, 'Michael': 103}

Question 4:

We have a number given below. If the number is greater than 0, add 1 to it. Otherwise, subtract 1 from it, and print the new number obtained.

num = -6

Expected Output:

-7

Question 5:

I have four variables, each assigned with certain values given below. A massive expression line follows it. Re-write the expression which suits the desired lexical model.

a = 5

b = 2

c = 8

d = 7

x = (((a + b) * (a + c) * (a + d)) / ((b + a) * (b + c) * (b + d)) / ((c + a) * (c + b) * (c + d))) * (a * b * c * d)

Expected Output:

0.4977777777777778

Question 6:

There are two numbers given below. Compare them and print the result obtained.

a = 5

b = 9

Expected Output:

b is greater than a

Question 7:

We have a set given below. Find out whether 10 and 7 are present in the given set or not.

mySet = {5, 7, 2, 6, 3}

Expected Output:

False

True

Question 8:

We have a number given below. Write a program to check for the divisibility of this number by 3 and 5, and print the result obtained.

a = 12

Expected Output:

a is divisible by either 3 or 5, but not both

Question 9:

Write a Python program to check if the given year is a leap year.

year = 1996

Expected Output:

Leap Year

Question 10:

I have an examination form that requires the following information.

Name, Age, Roll Number, and Subjects.

Declare the parameters mentioned above with a suitable data type, and then assign some values to it, and finally print the result.

Expected Output:

Name: Sachin

Age: 17

Roll Number: 528841

Subjects: ['Maths', 'Physics', 'Chemistry', 'Computer Science', 'English']