



Question 1

10 pts

Given a number 'n'. The task is to create a 4 digit OTP by squaring and concatenating the odd digits of the number.

For eg.,

Input: 4365188

Output: 9256

The integers at odd places are 3, 5, and 8. So we have to return a 4 digit OTP by squaring the digits. The square of the above digits are 9, 25, 65 so the OTP to be returned is the first four digits 9256 by leaving the remaining digits.

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40 words

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Question 2

10 pts

Write a Python Program to read an input string and check whether the given string is a valid passport number or not using Regular Expression. The valid passport number must satisfy the following conditions:

It should be eight characters long.

The first character should be an uppercase alphabet.

The next two characters should be a number, but the first character should be any number from 1-9 and the second character should be any number from 0-9.

It should be zero or one white space character.

The next four characters should be any number from 0-9.

The last character should be any number from 1-9.

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39 words





Question 3

10 pts

Write a python program to separate the positive and negative numbers in the given list. Your program should get the input elements (positive and negative) in the list and print the positive and negative elements as a seperate list.

For example:

Input: lst1 = [3, -8, 50, -70, -33]

Output: lst2 = [3, 50] & lst3 = [-8, -70, -33]

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54 words

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Question 4

10 pts

Evaluate the following code and find the output.

Which among the following list of operators has the highest precedence?

1. `+, -, **, %, /, <<, >>, |`

Evaluate the following expression and display the output:

2. `2+(5-6)*2**10//3`

Evaluate and determine the output of the following Python expression, if X=5 and Y=6

3. `X ^ Y`

Evaluate and determine the value of x in the following Python expression, if the result of

4. that expression is 3?

`x>>4`

5. Write a Python program that prints sum of first and last digit of a given number.

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Question 5

10 pts

Write a python program that checks the strength of a password entered by the user. The strength of the password is decided based on the following criteria. It should be of minimum 9 characters and maximum of 15 characters, should consider factors like use of uppercase and lowercase letters, digits, and special characters. The password is said to be invalid if the above combinations are not met. If the above conditions are satisfied then the password is considered as valid.

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Question 6

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