

Assignment - Python

LEVEL1

1. Write a program to create a function show_employee() using the following conditions.
 - It should accept the employee's name and salary and display both.
 - If the salary is missing in the function call then assign default value 50,000 to salary
2. Write a Python programme to Print First 10 natural numbers using while loop
3. Exercise 4: Write a program to print multiplication table of a given number
4. Write a program to count the total number of digits in a number using a while loop
5. Given two integer numbers, return their product only if the product is equal to or lower than 1000. Otherwise, return their sum.
- 6.
7. Write a Python programme to calculate Income tax of an employee following the below criteria.
 - 5 Lakhs - 10%
 - 5 -7 Lakhs - 20%
 - 7-10 Lakhs - 30%
 - >15 Lakhs - 40%

Expected output :

Enter the total earnings : 500000

Income Tax to be paid : 50000

8. Write a python programme to Count all letters, digits, and special symbols from a given string

LEVEL 2

1. Write a program to iterate the first 10 numbers, and in each iteration, print the sum of the current and previous number.
2. Write a program to accept a string from the user and display characters that are present at an even index number.
3. Given two list of numbers, write a program to create a new list such that the new list should contain odd numbers from the first list and even numbers from the second list
4. Write a program to add two lists index-wise. Create a new list that contains the 0th index item from both the list, then the 1st index item, and so on till the last element. any leftover items will get added at the end of the new list.

Example:

```
list1 = ["M", "na", "i", "Ri"]
```

```
list2 = ["y", "me", "s", "A"]
```

Expected output:

```
['My', 'name', 'is', 'RiA']
```

5. Write a Python program to return a new set with unique items from both sets by removing duplicates.
6. Write a program to unpack the following tuple into four variables and display each variable.
7. Write a function to return True if the first and last number of a given list is the same. If numbers are different then return False.
8. Write a program to check if the given number is a palindrome number.
 - A palindrome number is a number that is the same after reverse. For example, 545, is the palindrome numbers