Assignment 4
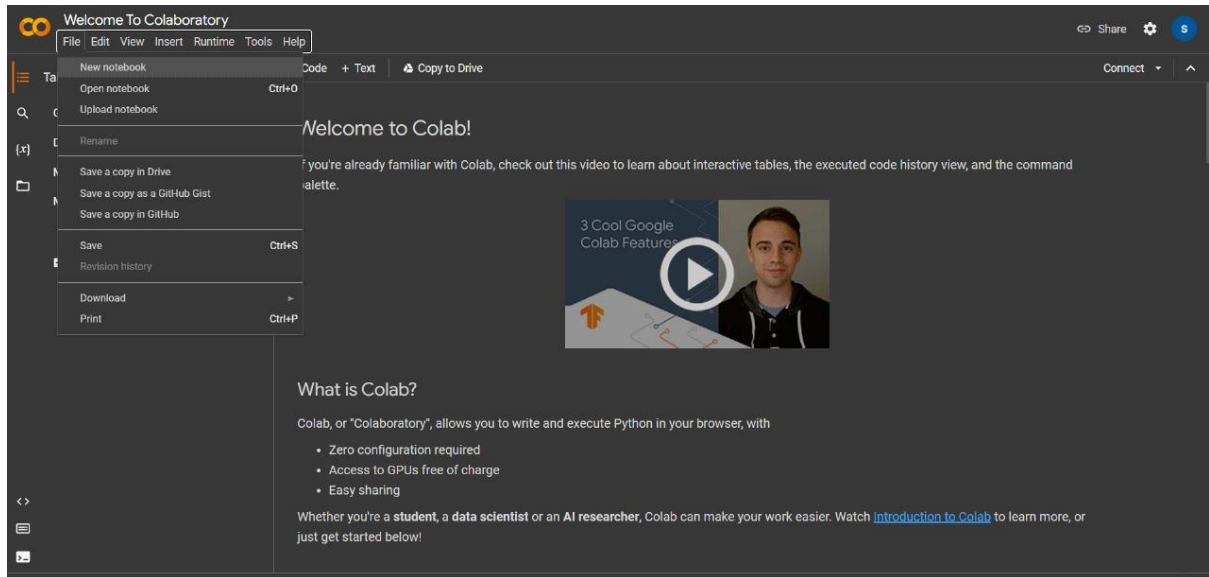
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Open Google Colab and create a new notebook

Task - 1

Create two list and join those two lists.

Task - 2

With If statement find the even numbers

```
Task - 2 With If statement find the even numbers

[2]  numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

     even_numbers = []

     for num in numbers:
         if num % 2 == 0:
             even_numbers.append(num)

     print("Even numbers:", even_numbers)


     Even numbers: [2, 4, 6, 8, 10]
```

Task - 3

Create a dictionary with 3 keys and 2 values for each key

```
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my_dict = {
    'Name': ['Appu', 'Bala'],
    'Age': [35, 20],
    'Department': ['CSE', 'EEE']
}

print(my_dict)


{'Name': ['Appu', 'Bala'], 'Age': [35, 20], 'Department': ['CSE', 'EEE']}
```

Task - 4

Create a function with If statement which is used to find the odd numbers

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```python
[5] def find_odd_numbers(numbers):
        odd_numbers = []

        for num in numbers:
            if num % 2 != 0:
                odd_numbers.append(num)

        return odd_numbers

    numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

    odd_numbers = find_odd_numbers(numbers)
    print("Odd numbers:", odd_numbers)

    Odd numbers: [1, 3, 5, 7, 9]
```

Task - 5

Write a Python function to sum all the numbers in a list.

Sample List: (8, 2, 3, 0, 7)

Expected Output: 20

Task - 5 Write a Python function to sum all the numbers in a list. Sample List : (8, 2, 3, 0, 7) Expected Output : 20

```python
[6] def sum_of_numbers(numbers):
        total_sum = 0

        for num in numbers:
            total_sum += num

        return total_sum

    sample_list = [8, 2, 3, 0, 7]

    result = sum_of_numbers(sample_list)
    print("Sum of numbers:", result)

    Sum of numbers: 20
```