Assignment 4
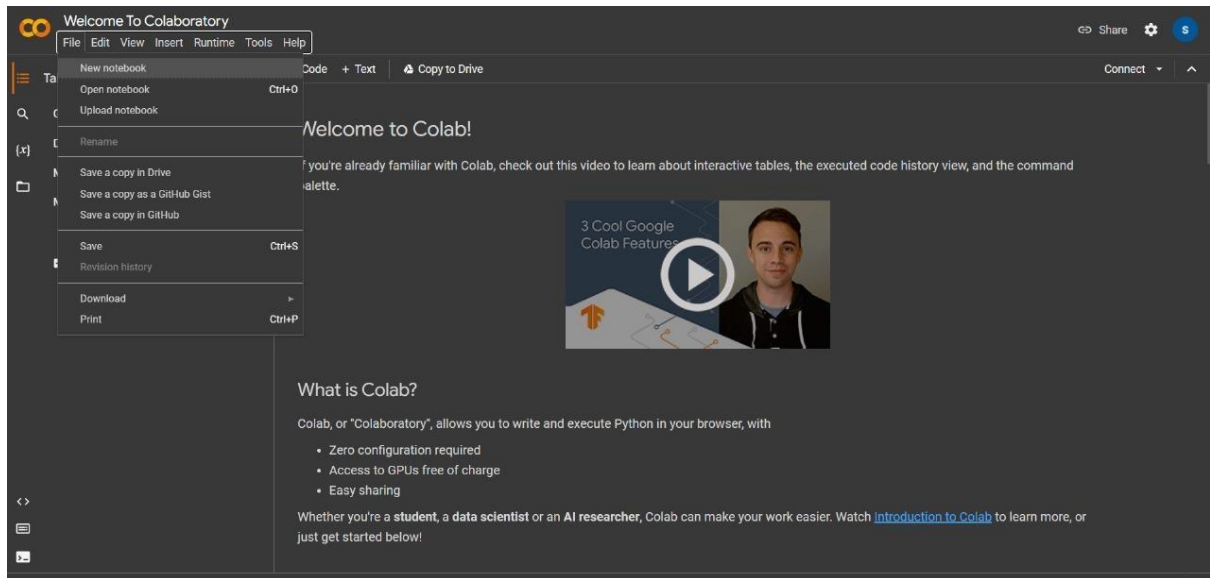
Open Google Colab and create a new notebook

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

+ Code   + Text

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

even_numbers = []

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

    print("even numbers:",even_numbers)
```

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

Task - 3

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

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

```python
my_dict = {
    'Name':['kumar','ravi'],
    'Age':[23,20],
    'Department':['CSE', 'EEE']


}

print(my_dict)
```

```
{'Name': ['kumar', 'ravi'], 'Age': [23, 20], 'Department': ['CSE', 'EEE']}
```

Task - 4

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

Task-4 Create a function withif statment which is used to find the odd numbers

```python
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 a llist sample list:(8,2,3,0,7)Expected output:20

```python
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
```