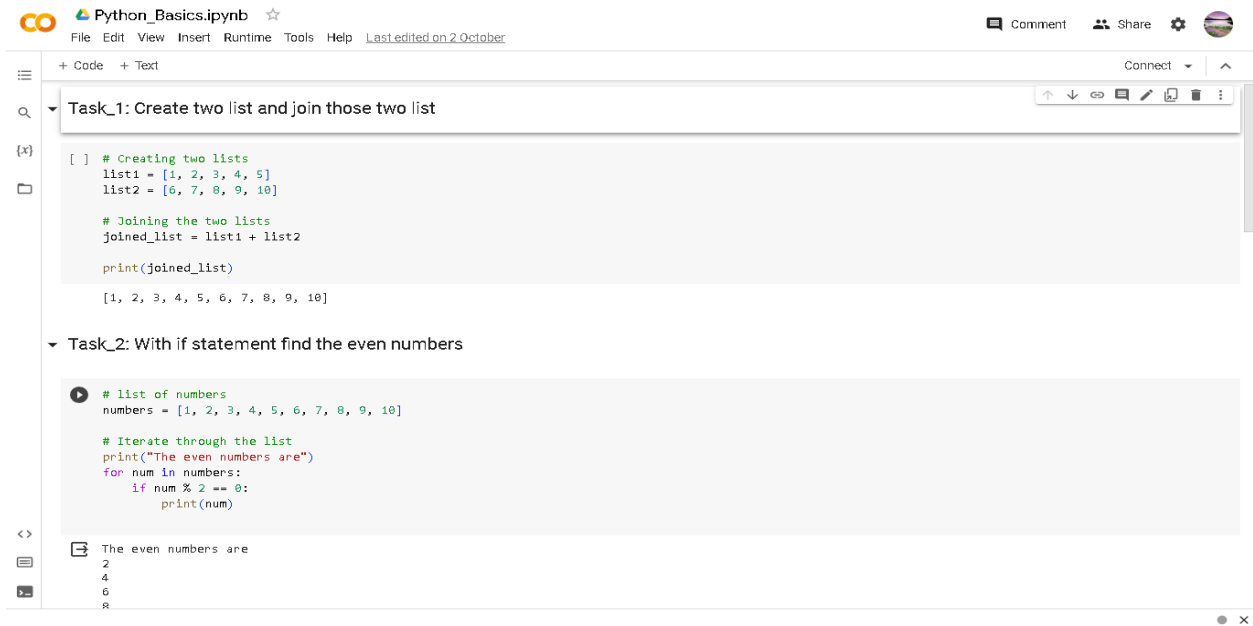


# Assignment – 4

## Python Basics

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Python\_Basics.ipynb ☆

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Task\_1: Create two list and join those two list

```
[ ] # Creating two lists
list1 = [1, 2, 3, 4, 5]
list2 = [6, 7, 8, 9, 10]

# Joining the two lists
joined_list = list1 + list2

print(joined_list)
```

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

Task\_2: With if statement find the even numbers

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

# Iterate through the list
print("The even numbers are")
for num in numbers:
    if num % 2 == 0:
        print(num)
```

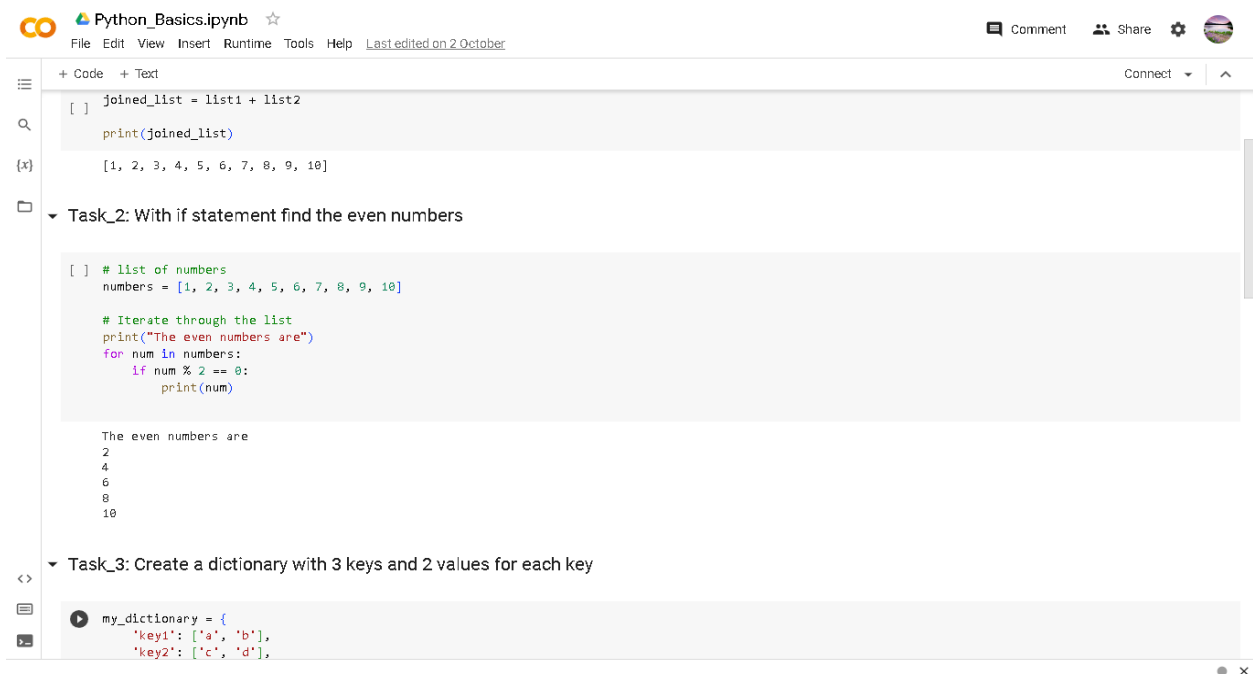
The even numbers are

2

4

6

8



Python\_Basics.ipynb ☆

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joined\_list = list1 + list2

```
print(joined_list)
```

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

Task\_2: With if statement find the even numbers

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

# Iterate through the list
print("The even numbers are")
for num in numbers:
    if num % 2 == 0:
        print(num)
```

The even numbers are

2

4

6

8

10

Task\_3: Create a dictionary with 3 keys and 2 values for each key

```
[ ] my_dictionary = {
    'key1': ['a', 'b'],
    'key2': ['c', 'd'],
}
```



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## ▼ Task\_3: Create a dictionary with 3 keys and 2 values for each key



```
[ ] my_dictionary = {  
    'key1': ['a', 'b'],  
    'key2': ['c', 'd'],  
    'key3': ['e', 'f']  
}  
  
# Accessing values in the dictionary  
print(my_dictionary['key1'])  
print(my_dictionary['key2'])  
print(my_dictionary['key3'])
```

```
['a', 'b']  
['c', 'd']  
['e', 'f']
```



## ▼ Task\_4: Create a function with if statement which is used to find the odd numbers



```
def find_odd_numbers(numbers):  
    odd_numbers = []  
    for num in numbers:  
        if num % 2 != 0:  
            odd_numbers.append(num)  
    return odd_numbers
```



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## ▼ Task\_4: Create a function with if statement which is used to find the odd numbers



```
[ ] def find_odd_numbers(numbers):  
    odd_numbers = []  
    for num in numbers:  
        if num % 2 != 0:  
            odd_numbers.append(num)  
    return odd_numbers  
  
numbers_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]  
odd_numbers_list = find_odd_numbers(numbers_list)  
print("Odd numbers:", odd_numbers_list)
```

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



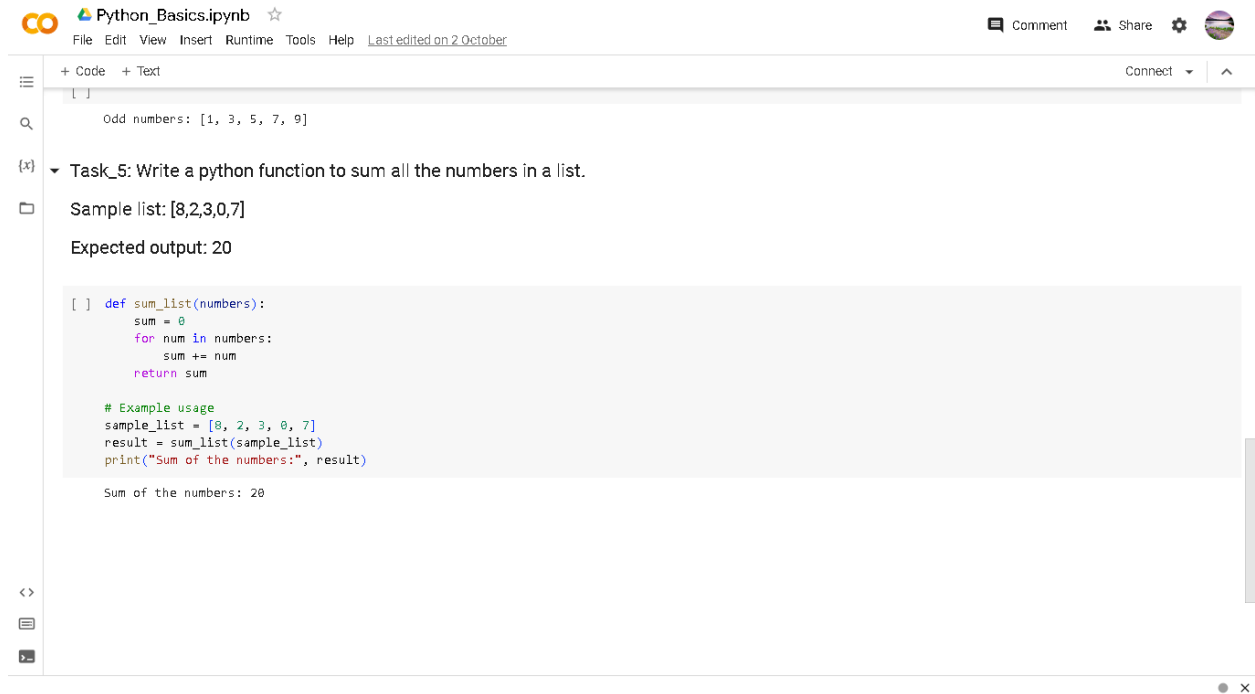
## ▼ Task\_5: Write a python function to sum all the numbers in a list.

Sample list: [8,2,3,0,7]

Expected output: 20



```
def sum_list(numbers):  
    sum = 0  
    for num in numbers:  
        sum += num  
    return sum
```



The screenshot shows a Google Colab notebook interface. At the top, the title bar reads 'Python\_Basics.ipynb' with a star icon and a 'Last edited on 2 October' timestamp. The menu bar includes 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. On the right, there are icons for 'Comment', 'Share', and a user profile. The notebook content is divided into two sections: a code cell and a text cell. The code cell contains a function definition and an example usage. The text cell contains the task description, sample input, and expected output.

```
[ ] def sum_list(numbers):  
    sum = 0  
    for num in numbers:  
        sum += num  
    return sum  
  
# Example usage  
sample_list = [8, 2, 3, 0, 7]  
result = sum_list(sample_list)  
print("Sum of the numbers:", result)
```

Sum of the numbers: 20

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

Python file link:

[https://colab.research.google.com/drive/1VA73\\_yIN\\_gASZh7IGR6Gnehux4iu31Xa?usp=sharing](https://colab.research.google.com/drive/1VA73_yIN_gASZh7IGR6Gnehux4iu31Xa?usp=sharing)