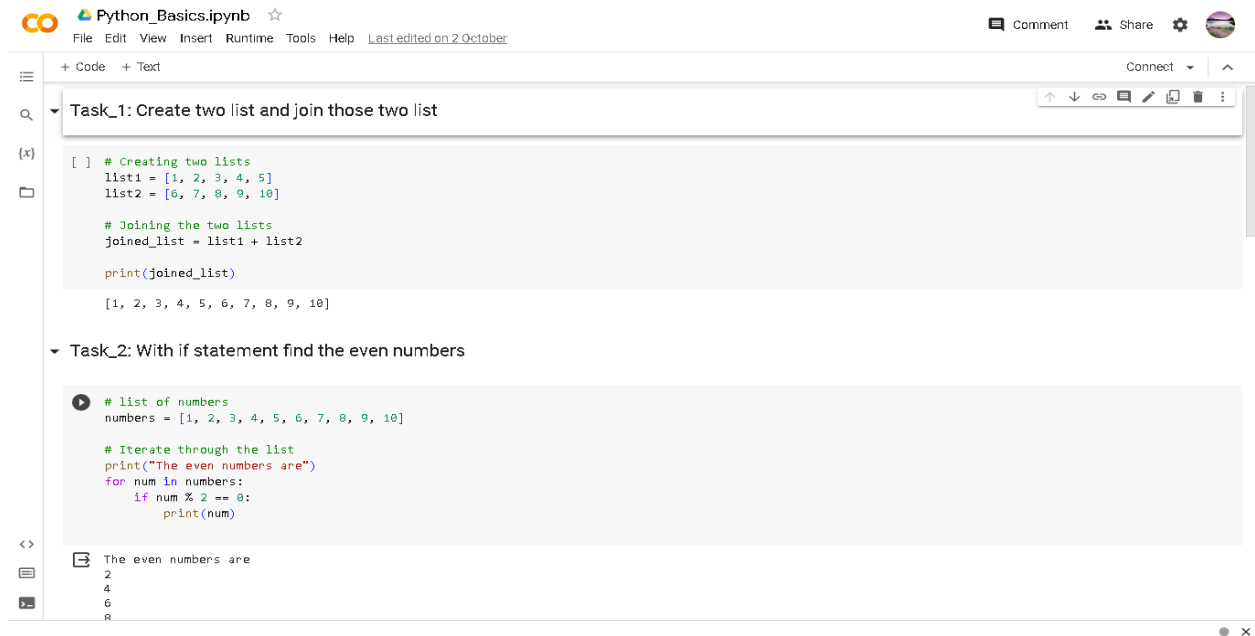


Assignment – 4

Python Basics

Name: Suryapraha V

NM Id: au611220104159



Python_Basics.ipynb ☆
File Edit View Insert Runtime Tools Help Last edited on 2 October

+ Code + Text

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)
```

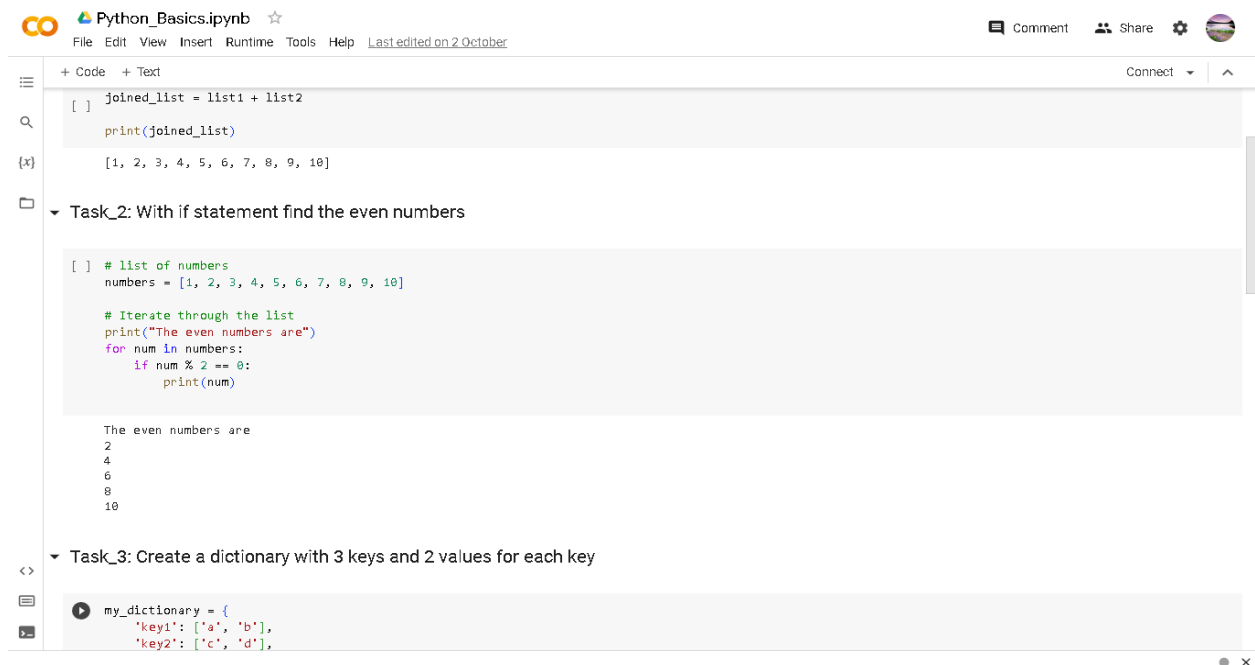
```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

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 ☆
File Edit View Insert Runtime Tools Help Last edited on 2 October

+ Code + Text

```
[ ] 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'],
```

 Python_Basics.ipynb ☆
File Edit View Insert Runtime Tools Help [Last edited on 2 October](#)

Comment Share Settings Profile

Code + Text Connect ^

10

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
```

 Python_Basics.ipynb ☆
File Edit View Insert Runtime Tools Help [Last edited on 2 October](#)

Comment Share Settings Profile

Code + Text Connect ^

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)
```

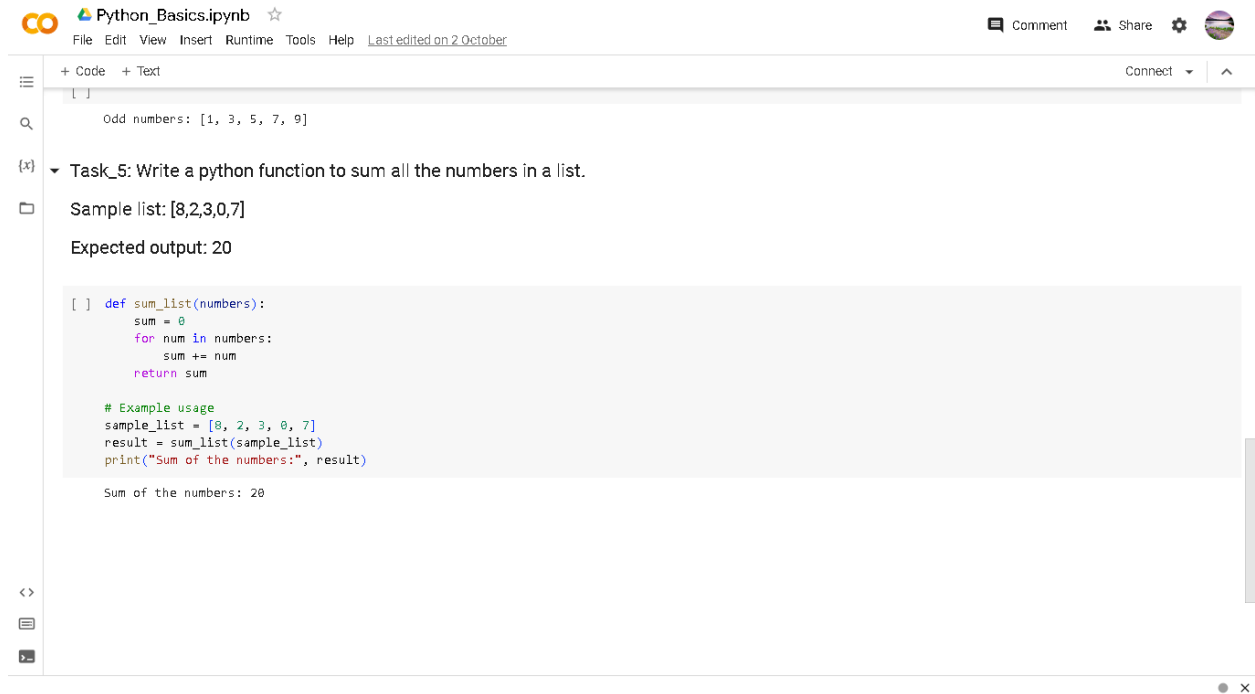
```
Odd numbers: [1, 3, 5, 7, 9]
```

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. Below the title bar is a menu bar with 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. On the right side of the title bar are icons for 'Comment', 'Share', 'Settings', and a user profile picture. The notebook content area has a left sidebar with icons for 'Code', 'Text', 'Find', 'Task_5', and 'Sample list'. The main area displays the following text:

```
[ ] 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  
  
# 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

Python file Link:

<https://colab.research.google.com/drive/1ZM3qabnh2Z3qBnimtQMgde5JLLj0uDcX?usp=sharing>