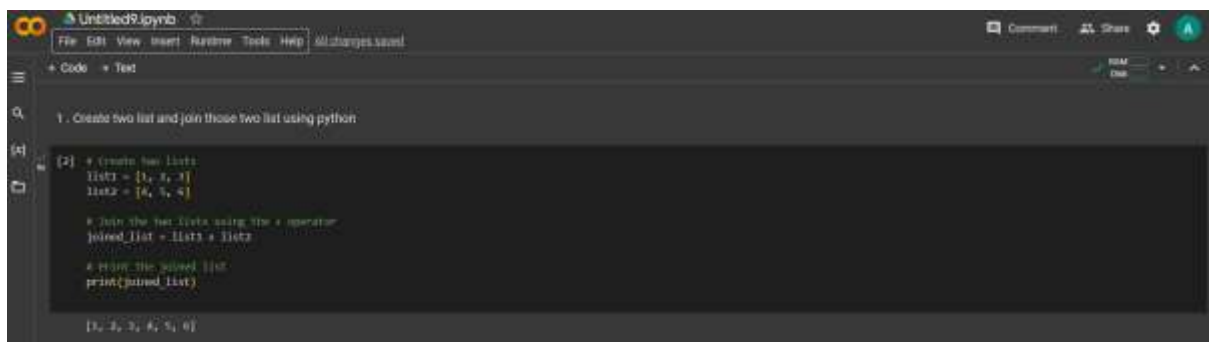


DA ASSIGNMENT – 4

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Create two list and join those two list :



The screenshot shows a Jupyter Notebook interface with a single code cell. The code defines two lists, `list1` and `list2`, and then joins them into `joined_list` using the `+` operator. The output of the code is displayed below the cell.

```
1. Create two list and join those two list using python

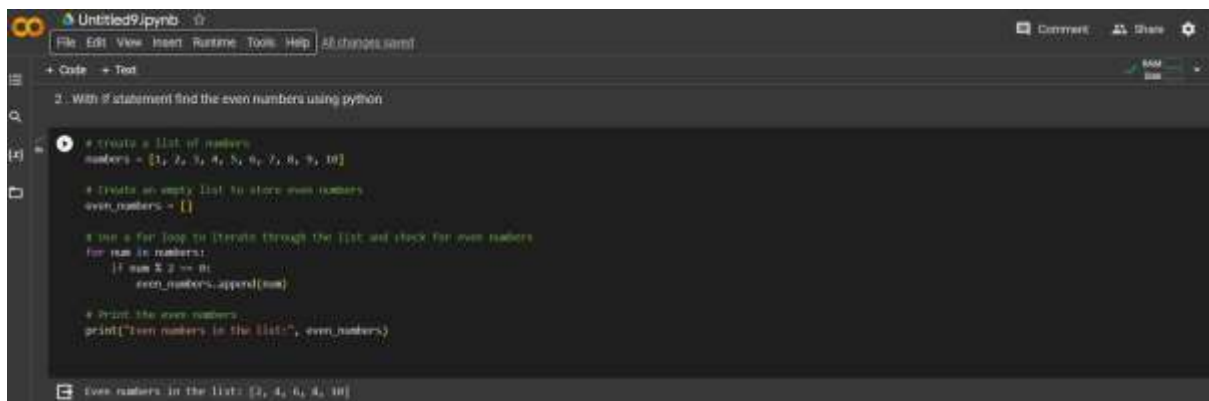
[2]: # create two lists
list1 = [1, 2, 3]
list2 = [4, 5, 6]

# join the two lists using the + operator
joined_list = list1 + list2

# print the joined list
print(joined_list)

[1, 2, 3, 4, 5, 6]
```

With If statement find the even numbers :



The screenshot shows a Jupyter Notebook interface with a single code cell. The code creates a list of numbers, initializes an empty list for even numbers, and then iterates through the first list using a `for` loop. It uses an `if` statement to check if a number is even (i.e., `num % 2 == 0`) and appends it to the `even_numbers` list. The output of the code is displayed below the cell.

```
2. With if statement find the even numbers using python

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

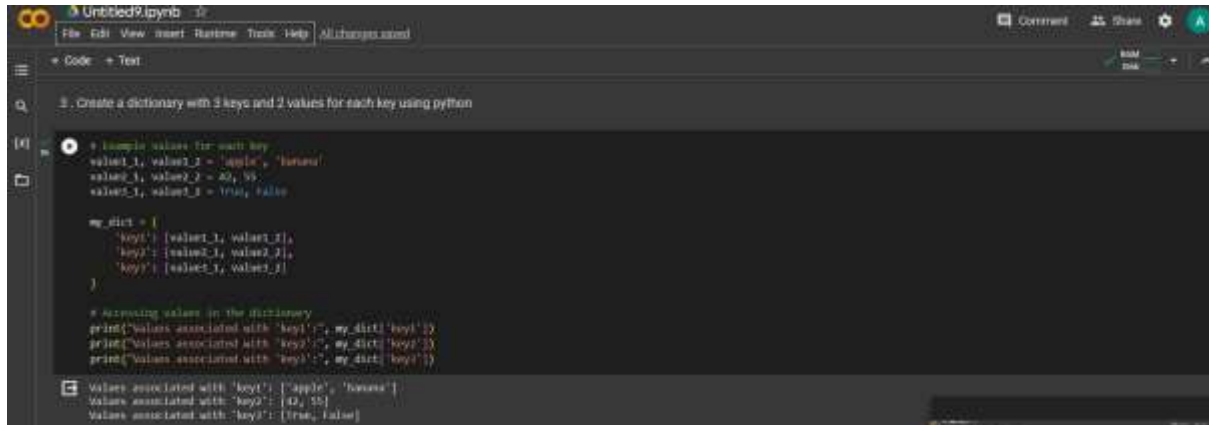
# create an empty list to store even numbers
even_numbers = []

# use a for loop to iterate through the list and check for even numbers
for num in numbers:
    if num % 2 == 0:
        even_numbers.append(num)

# print the even numbers
print("Even numbers in the list:", even_numbers)

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

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



A screenshot of a Jupyter Notebook interface. The title bar shows 'Untitled9.ipynb'. The menu bar includes 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. The toolbar has icons for 'Comment', 'Share', and a green 'Run' button. The code editor contains the following Python code:

```
3. Create a dictionary with 3 keys and 2 values for each key using python

# Sample values for each key
value1_1, value1_2 = 'apple', 'banana'
value2_1, value2_2 = 42, 55
value3_1, value3_2 = True, False

my_dict = {
    'key1': [value1_1, value1_2],
    'key2': [value2_1, value2_2],
    'key3': [value3_1, value3_2]
}

# Accessing values in the dictionary
print("Values associated with 'key1':", my_dict['key1'])
print("Values associated with 'key2':", my_dict['key2'])
print("Values associated with 'key3':", my_dict['key3'])
```

The output at the bottom shows:

```
Values associated with 'key1': ['apple', 'banana']
Values associated with 'key2': [42, 55]
Values associated with 'key3': [True, False]
```

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



A screenshot of a Jupyter Notebook interface. The title bar shows 'Untitled9.ipynb'. The menu bar includes 'File', 'Edit', 'View', 'Insert', 'Runtime', 'Tools', and 'Help'. The toolbar has icons for 'Comment', 'Share', and a green 'Run' button. The code editor contains the following Python code:

```
4. Create a function with If statement which is used to find the odd numbers using python

def find_odd_numbers(numbers):
    # Create an empty list to store odd numbers
    odd_numbers = []

    # Use a for loop to iterate through the list and check for odd numbers
    for num in numbers:
        if num % 2 != 0:
            odd_numbers.append(num)

    # Return the list of odd numbers
    return odd_numbers

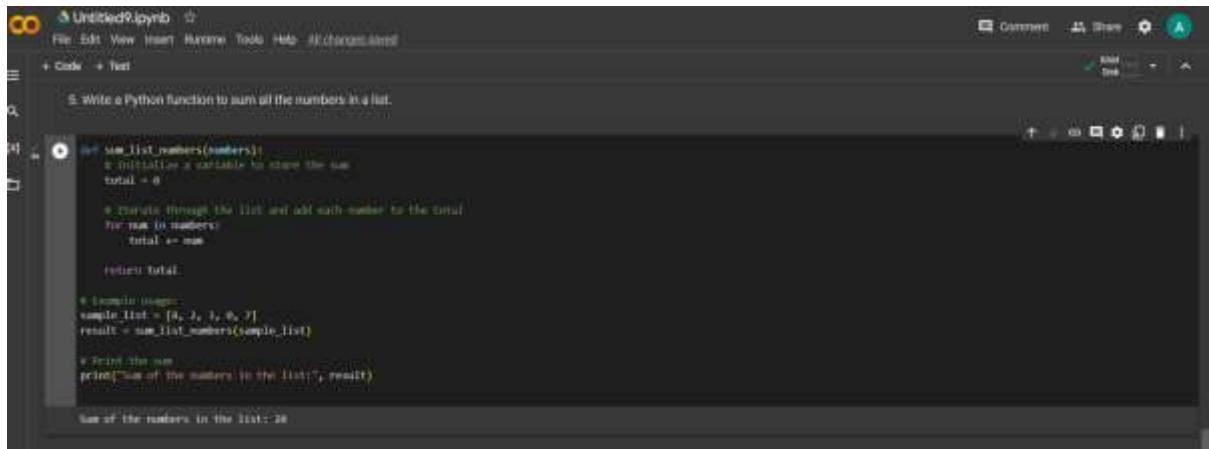
# Sample input
numbers_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
result = find_odd_numbers(numbers_list)

# Print the odd numbers
print("Odd numbers in the list:", result)
```

The output at the bottom shows:

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

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



The screenshot shows a Jupyter Notebook interface with a dark theme. The title bar reads 'Untitled9.ipynb'. The menu bar includes 'File', 'Edit', 'View', 'Insert', 'Running', 'Tools', 'Help', and 'REPL (console)'. Below the menu bar, there are tabs for '+ Code' and '+ Text'. The main area contains a code cell with the following Python code:

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

def sum_list_numbers(numbers):
    # Initialize a variable to store the sum
    total = 0

    # Iterate through the list and add each number to the total
    for num in numbers:
        total += num

    return total

# Example usage:
sample_list = [8, 2, 1, 0, 7]
result = sum_list_numbers(sample_list)

# Print the sum
print("Sum of the numbers in the list:", result)
```

Below the code cell, the output is displayed: 'Sum of the numbers in the list: 28'.