

## ASSIGNMENT-4

### 1.Create two list and join those two list

PROGRAM :

```
main.py
1 list1 = []
2 list2 = []
3
4
5 n1 = int(input("Enter the number of elements for the first list: "))
6 for i in range(n1):
7     element = input("Enter an element for the first list: ")
8     list1.append(element)
9
10
11 n2 = int(input("Enter the number of elements for the second list: "))
12 for i in range(n2):
13     element = input("Enter an element for the second list: ")
14     list2.append(element)
15
16
17 joined_list = list1 + list2
18
19 |
20 print("Joined list:", joined_list)
21
```

OUTPUT:




Shell

Clear

```
Enter the number of elements for the first list: 3
Enter an element for the first list: 1
Enter an element for the first list: 6
Enter an element for the first list: 7
Enter the number of elements for the second list: 2
Enter an element for the second list: 3
Enter an element for the second list: 5
Joined list: ['1', '6', '7', '3', '5']
>
```

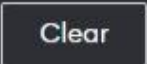
## 2. With If statement find the even numbers

### PROGRAM

```
main.py   
```

```
1 user_input = input("Enter a list of numbers separated by spaces: ")
2 user_list = user_input.split()
3 even_numbers = []
4 for number in user_list:
5     if number.isdigit() and int(number) % 2 == 0:
6         even_numbers.append(int(number))
7 if even_numbers:
8     print("Even numbers in the list:", even_numbers)
9 else:
10    print("No even numbers found in the list.")
```




### OUTPUT:

```
Shell 
```

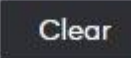
```
Enter a list of numbers separated by spaces: 2
Even numbers in the list: [2]
> |
```

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

PROGRAM:



```
main.py   
1 my_dictionary = {}
2 for i in range(1, 4):
3     key = input(f"Enter key{i}: ")
4     value1 = input(f"Enter the first value for {key}: ")
5     value2 = input(f"Enter the second value for {key}: ")
6     my_dictionary[key] = [value1, value2]
7 print("The dictionary you created is:")
8 print(my_dictionary)
9
```

OUTPUT

```
Shell 
Enter key1: name
Enter the first value for name: pooja
Enter the second value for name: lakshmi
Enter key2: class
Enter the first value for class: first
Enter the second value for class: third
Enter key3: age
Enter the first value for age: 8
Enter the second value for age: 9
The dictionary you created is:
{'name': ['pooja', 'lakshmi'], 'class': ['first', 'third'], 'age': ['8',
'9']}
> |
```

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

PROGRAM

```
main.py   Run
```

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



OUTPUT

```
Shell Clear
```

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

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

PROGRAM

```
main.py   Run
```

```
1 def sum_list(numbers):  
2     total = 0  
3     for number in numbers:  
4         total += number  
5     return total  
6 my_list = [1, 2, 3, 4, 5]  
7 result = sum_list(my_list)  
8 print("The sum of the numbers in the list is:", result)
```

OUTPUT

```
Shell Clear
```

```
The sum of the numbers in the list is: 15  
> |
```