

# ASSIGNMENT-2

## DOMAIN:DATA SCIENCE WITH AI-ML

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- Using python program to find the sum of all even number in a given list.

### PROGRAM:

```
def sum_of_even_numbers(numbers):  
    # Initialize the sum variable  
    even_sum = 0  
  
    # Iterate over each number in the list  
    for number in numbers:  
        # Check if the number is even  
        if number % 2 == 0:  
            # Add the even number to the sum  
            even_sum += number  
  
    return even_sum  
  
# Example usage  
my_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10,12]  
result = sum_of_even_numbers(my_list)  
print("The sum of even numbers in the list is:", result)
```

### OUTPUT:

The sum of even numbers in the list is: 42

*Example:*

```
# Example usage
```

```
my_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 25, 90, 200, 800]
```

*output:*

The sum of even numbers in the list is: 1120

*Example:*

```
# Example usage
```

```
my_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 100, 500, 900, 1600]
```

*output:*

The sum of even numbers in the list is: 3130

*Example:*

```
# Example usage
```

```
my_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 100, 5000, 10000, 50000]
```

*output:*

The sum of even numbers in the list is: 65130