



## **Lab 4**

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**Subject: AI Lab**

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## Task 1

```
# Question 1
total = 0
for num in range(1, 21):
    if num%2==0:
        total = total+num
print("Sum of even numbers from 1 to 20:", total)
```

## Output

```
C:\Users\hp\PycharmProjects\PythonProject
Sum of even numbers from 1 to 20: 110
```

## Task 2

```
# Question 2
numbers = [5, 2, 8, 1, 3, 7]
smallest = min(numbers)
print("Smallest number in the list:", smallest)
```

## Output

```
Smallest number in the list: 1
```

## Task 3

```
# Question 3
list1 = [1, 2, 3]
list2 = [4, 5, 6]
list1.extend(list2)
print("Extended list:", list1)
```

## Output

```
Extended list: [1, 2, 3, 4, 5, 6]
```

## Task 4

```
# Question 4
|
num = int(input("Enter a positive number: "))

while num < 0:
    num = int(input("Please enter a positive number: "))

factorial = 1
i = num

while i > 1:
    factorial *= i
    i -= 1

print(f"Factorial of {num} is {factorial}")
```

## Output

```
Enter a positive number: -4
Please enter a positive number: 4
Factorial of 4 is 24
```

## Question 5

## AI Lab week 4

```
# Question 5

letter = input("Enter a letter: ").lower()

if letter in 'aeiou':
    print("Vowel")
else:
    print("Consonant")
```

## Output

```
Enter a letter: e
Vowel
```