

# LU05.L12: Split in pieces

## 1. Einlesen

```
def main():
    print('Give a numbers:')
    number = 1 # To compensate for -1 for terminating
    while number != -1:
        number = int(input())
    print('Thx! Bye!')
```

```
if __name__ == '__main__':
    main()
```

## 2. Summe der Zahlen

```
def main():
    print('Give numbers:')
    number = 0
    sums = 1 # To compensate for -1 for terminating
    while number != -1:
        number = int(input(''))
        sums += number
    print('Thx! Bye!')
```

```
print(f'Sum: {sums}')
```

```
if __name__ == '__main__':
    main()
```

## 3. Summe und die Anzahl der Zahlen

```
def main():
    print('Give numbers:')
    number = 0
    sums = 1 # To compensate for -1 for terminating
    counter = -1 # We start with -1 to compensate for last iteration
    while number != -1:
        number = int(input(''))
        sums += number
        counter += 1
    print('Thx! Bye!')
```

```
print(f'Sum: {sums}')
```

```
print(f'Numbers: {counter}')
```

```
if __name__ == '__main__':  
    main()
```

## 4. Durchschnitt der Zahlen

```
def main():  
    print('Give numbers:')  
    number = 0  
    sums = 1 # To compensate for -1 for terminating  
    counter = -1 # We start with -1 to compensate for last iteration  
    while number != -1:  
        number = int(input(''))  
        sums += number  
        counter += 1  
    print('Thx! Bye!')  
    print(f'Sum: {sums}')    print(f'Numbers: {counter}')    average = sums / counter  
    print(f'Average: {average}')
```

```
if __name__ == '__main__':  
    main()
```

## 5. Gerade und ungerade Zahlen

```
def main():  
    print('Give numbers:')  
    number = 0  
    sums = 1 # To compensate for -1 for terminating  
    counter = -1 # We start with -1 to compensate for last iteration  
    odd = 0  
    even = 0  
    while number != -1:  
        number = int(input(''))  
        if (number % 2 == 0 and number != -1):  
            even += 1  
        if (number % 2 == 1 and number != -1):  
            odd += 1  
        sums += number  
        counter += 1  
    print('Thx! Bye!')
```

```
print(f'Sum: {sums}')
print(f'Numbers: {counter}')
average = sums / counter
print(f'Average: {average}')
print(f'Even: {even}')
print(f'Odd: {odd}')

if __name__ == '__main__':
    main()
```

## M319-LU05



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