

Practice Sheet: for loop

Predict the output carefully before running the code. *Focus on understanding loop iterations and conditional logic!*

```
1.
number = 1234
sum_digits = 0
for digit in str(number)[::-1]:
    sum_digits += int(digit)
print(sum_digits)
```

```
2.
n = 5
result = 1
for i in range(n, 0, -1):
    result -= i
print(result)
```

```
3.
n = 3
for i in range(1, 6):
    print(n * i - 1)
```

```
4.
a, b = 0, 1
for _ in range(7):
    a, b = b, (a + b) % 10
print(a)
```

5.

```
pattern = "abc"
result = ""
for ch in pattern:
    result += ch * ord(ch) % 3
print(result)
```

6.

```
result = 0
for i in range(1, 6):
    if i % 2 == 0:
        result += i ** 2
print(result)
```

7.

```
for i in range(10, 0, -2):
    if i == 4:
        continue
    print(i, end=" ")
```

8.

```
string = "hello"
ascii_sum = 0
for ch in string:
    ascii_sum += ord(ch)
print(ascii_sum % 50)
```

9.

```
count = 0
for i in range(3):
    for j in range(2):
        count += i + j
print(count)
```

10.

```
nums = [2, 4, 6]
for i in range(len(nums)):
    nums[i] = nums[i] ** 2 - i
print(nums)
```

11.

```
count = 0
for num in range(2, 20):
    for i in range(2, int(num**0.5) + 1):
        if num % i == 0:
            break
    else:
        count += 1
print(count)
```

12.

```
sentence = "Python is fun"
words = sentence.split()
result = ""
for word in words[::-1]:
    result += word[::-1] + " "
print(result.strip())
```

13.

```
lst = [1, 2, 3, 4]
result = []
for i in range(len(lst)):
    product = 1
    for j in range(len(lst)):
        if i != j:
            product *= lst[j]
    result.append(product)
print(result)
```