for Loop

Example – `for` Loop

```cpp
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

Example – `for` Loop

```
sum:      0
```

```cpp
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

Example – `for` Loop

```
sum:      0
i:        1
```

```cpp
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

Example – `for` Loop

```
sum:      0
i:        1
```

```
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

Example – `for` Loop

```
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

1 <= 3

true

sum: 0
i: 1

Example – `for` Loop

```
sum:     1
i:       1
```

```cpp
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

Example – `for` Loop

```
sum:     1
i:       2
```

```
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

Example – `for` Loop

```
sum:    1
i:      2
```

```
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

Example – `for` Loop

Example – `for` Loop

```
sum:    3
i:      2
```

```
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

```
sum:     3
i:       3
```

```
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

Example – `for` Loop

```
sum:     3
i:       3
```

```cpp
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

Example – `for` Loop

```
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

3 <= 3

true

sum: 3
i: 3

Example – `for` Loop

```
sum:      6
i:        3
```

```
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

Example – `for` Loop

```
sum:     6
i:       4
```

```cpp
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

```
sum:     6
i:       4
```

```
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```

Example – `for` Loop

sum: 6

```
int sum = 0;

for (int i = 1; i <= 3; ++i)
    sum += i;

std::cout << sum << "\n";
```