

▼ Let's warm up your knowledge about Python Functions

▼ Simple functions

▼ Task: Define a function `sayhi()` that:

1. Ask user for an int and save it to `n`.
2. print 'Welcome to Python Functions' `n` times.

```
def sayhi():  
    n = int(input('Enter an int:'))  
    for i in range(n):  
        print('Welcome to Python Functions')
```

▼ Task: Call `sayhi()`

```
sayhi()
```

```
Enter an int:5  
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions
```

▼ Task: Define a function `sayhi(n)` that print 'Welcome to Python Functions' `n` times.

```
def sayhi(n):  
    for i in range(n):  
        print('Welcome to Python Functions')
```

▼ Task: Call `sayhi(n)` to print out 5 times

```
sayhi(5)
```

```
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions
```

▼ Advanced functions

▼ Task: Define a function `sayhi(n)` that:

1. `n` is by default 1, if user doesn't pass an argument to the function.
2. print 'Welcome to Python Functions' `n` times.

```
def sayhi(n = 1):  
    for i in range(n):  
        print('Welcome to Python Functions')
```

▼ Task: Call `sayhi(n)` to print out 0, 1, and 5 messages.

```
sayhi(0)
```

```
sayhi(1)
```

```
Welcome to Python Functions
```

```
sayhi()
```

```
Welcome to Python Functions
```

```
sayhi(5)
```

```
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions
```

▼ Task: Define a function `sayhi(n, msg)` that:

1. `n` is by default 1, if user doesn't pass an argument to the function.
2. `msg` by default is 'Welcome to Python Functions', if user doesn't pass an argument.
3. print `msg` `n` times.

```
def sayhi(n = 1, msg = 'Welcome to Python Functions'):  
    for i in range(n):  
        print(msg)
```

▼ Task: Call `sayhi(n, msg)` to print out 0, 1, and 5 'Welcome to Python Functions'.

```
sayhi(0)
```

```
sayhi(1)
```

```
Welcome to Python Functions
```

```
sayhi()
```

```
Welcome to Python Functions
```

```
sayhi(5)
```

```
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions  
Welcome to Python Functions
```

▼ Task: Call `sayhi(n, msg)` to print out 0, 1, and 5 'yeah'.

```
sayhi(0, 'yeah')
```

```
sayhi(1, 'yeah')
```

```
yeah
```

```
sayhi(5, 'yeah')
```

```
yeah  
yeah  
yeah  
yeah  
yeah
```

- ▼ Task: Call `sayhi(n, msg)` by keywords to print out 0, 1, and 5 'yeah'.

```
sayhi(n = 0, msg = 'yeah')
```

```
sayhi(msg = 'yeah')
```

```
yeah
```

```
sayhi(n = 1, msg = 'yeah')
```

```
yeah
```

```
sayhi(msg = 'yeah', n = 5)
```

```
yeah  
yeah  
yeah  
yeah  
yeah
```

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