

➤ 23 /10/2023 (Today's covered topics)

1. How to call function
2. How to declare and define a function ?
3. What is function ?
4. Why it is useful ?
5. Advantage of function
6. Types of function
7. How Parameter and argument works
8. Call by value and call by reference
9. Some example on function with practice

Syntax of User Define Function

```
Return_type function_name(parameter1,parameter2,...)
{
Statement1..
Statement2..
Statement3..
}
```

• Function using call by value

```
void myFunction(string fname) {
cout << fname << " Refsnes\n";
```

```

}

int main() {
myFunction(); // function calling
myFunction("Liam"); // function calling + argument Passing
myFunction("Jenny");
myFunction("Anja");
return 0;
}

// Liam Refsnes
// Jenny Refsnes
// Anja Refsnes

```

- **Function using call by reference**

```

void swapNums(int &x, int &y) {
int z = x;
x = y;
X=34;
Y=10;
Z=10;

```

```
y = z;
```

```
}
```

```
int main() {
```

```
int firstNum = 10;
```

```
int secondNum = 20;
```

```
cout << "Before swap: " << "\n";
```

```
cout << firstNum << secondNum << "\n";
```

```
// Call the function, which will change the values of firstNum and  
secondNum
```

```
swapNums(firstNum, secondNum);
```

```
cout << "After swap: " << "\n";
```

```
cout << firstNum << secondNum << "\n";
```

```
return 0;
```

```
}
```