```
Philip Pesic
Week 7
March 5 2023
Week 7 Lecture Notes
Functions
Functions are a form of non-contiguous code reuse - they allow for a programmer to execute a
block of code with a single command, without rewriting the entire block. Since functions can be
called everywhere, they are considered non-contiguous. Function syntax:
Ex:
returnType name (args) {
Block
return
}
Predefined vs user-defined functions
Predefined functions are considered functions that are predefined by the system/library you are
using. User defined functions, on the other hand, are functions that you, the programmer, writes
in their code.
System defined:
Math.cos(double x); max(12, 111);
```

User defined:

Return x \* x;

}

Public static int sq(int x) {

Philip Pesic

Week 7

March 5 2023

Week 7 Lecture Notes

Function setup

A function's returnType and parameters/args can both have 2 states - void and nonvoid. These determine whether or not a function has a returnType or parameters. For example, void myFunc(void); has no parameters and does not return a value.

Ex:

Void func(void); int func(void); void func(int x); int func(int x);