# C# Programming Reference Sheet

Built In Data Types & Literals

Integers

Int, uint, long, ulong (eg- 5,10,15,20)

Floating Point Numbers

Float,double (eg- 1.5, 5.5)

Strings and Characters

String,char (eg- “Jack”, “id”)

Boolean

Boolean (eg- True or False)

Working with Strings

Assignment (giving a string a value)

Name = “Uzman”

Concatenation (joining strings)

String Name = “Will” + “Smith”

Comparison

Name == Name

Construction from other types:

Int a = 10;

a = A.toString();

Declaring Methods

Declare a method with parameters:

Public int Add(int num1, int num2){}

Declare a method that returns data:

Public int Add(int num1, int num2)

{

Return num1 + num2;

}

Pass by reference:

Age = 22;

squareRef(ref Age);

Console.WriteLine(arg);

Simple Programming Statements

Constant declaration

Private const int age = 22

Variable declaration

Int I = 0;

Assignment

A = 1;

Method call

<return type> <method name> (parameter list)

Sequence of statements - grouped

{}

Structured Programming Statements

If statement

Int age = 20

If(age < 18)

Console.writeline(“Underage”);

Case statement

Int balance = 1000;

Switch(balance)

{

Case 1:

Break;

Case 2:

Break;

}

While loop

Int I = 0;

While(i<5)

{

}

Repeat loop

Int a = 1

Repeat

{

Console.writrline();

a = a+1;

if(a==10){break;}

}

For loop

For(i=0; i<=10; I = i++)

{

}

Custom Types

Classes

Public class students

{

}

Enumerations

Enum Planets{Mercury,Venus,Earth};

Structs

Struct Books{ public string Title, Public string Author}

Boolean Operators and Other Statements

Comparison: equal, less, larger, not equal, less eq

==, <, > !=, <=

Boolean: And, Or and Not

&,|,!

Skip an iteration of a loop

continue

End a loop early

break

End a method:

return

Programs and Modules

Creating a program

Class Main

{

}

Using a class from a library

Using SubClass;

Public void main()

{

SubClass.print();

}

Other Things

Reading from Terminal

Console.readline();

Writing to Terminal

Console.WriteLine();

Comments

//Single Comment Line

Arrays

Declaration

String name[],int age[]

Access

Console.writeline(name[0]);

Console.writeline(name[1]);

Loop with index i

(int i=0; i<5; i++)

For each loop

Foreach (int radius in radii){}