C# Programming Reference Sheet

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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)
```

```
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
              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);
```

```
Custom Types

Classes

Public class students
{

}

Enumerations

Enum Planets{Mercury, Venus, Earth};

Structs

Struct Books{ public string Title,

Public string Author}
```

```
Concatenation (joining strings)
       String Name = "Will" + "Smith"
Comparison
       Name == Name
Construction from other types:
       Int a = 10:
       a = A.toString();
     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++)
```

Working with Strings

Assignment (giving a string a value)

Name = "Uzman"

```
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
```

```
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) {}
```