Cheatography

Data Types	
string	2 bytes/char
bool	
char	2 bytes
byte	1 byte
short	2 bytes
int	4 bytes
long	8 bytes
float	4 bytes
double	8 bytes
decimal	16 bytes

Float: Can hold up to seven significant digits of accuracy Double: Can hold 15 or 16 significant digits of accuracy Decimal: Has a greater precision and a smaller range. Suitable for financial and monetary calculations

Displaying Variable Values

Operators

+	Addition	-	Subtraction
*	Multiplication	/	Division
%	Remainder		



By pao361

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Suffixes

Put an F after a number to make it a float float pocketchange = 4.87F; Put a D after it to make it a double (default) float pocketchange = 4.87D; Put an M (money) after it to make it a decimal float pocketchange = 4.87M; Scientific notation Includes an E (for exponent)

Methods

Define it – takes 4 steps Declaration (or method header, or signature) { Code (method body) Return value; } Call it (invoke it)

Method declarations

Method with no return value, and passes no parameters public static void DisplayHelloText() DisplayHelloText(); Method with no return value, and passes one parameter public static void DisplaySalesTax(double pAmt) DisplaySalesTax(1243.00); Method with no return value, and passes two parameters public static void DisplaySalesTax(double pAmt, double ptaxRate) DisplaySalesTax (1243.00, .09); Method that returns a value, and passes two parameters

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Method declarations (cont)

public static **double** DisplaySalesTax-(double *pAmt*, double *ptaxRate*) Amount = DisplaySalesTax (1243.00, .09); return *Answer*,

(if no return, then **void**, else, return type, e.g. integer32, string, double, etc)

Convert Methods			
ToBool- ean()	to an equivalent Boolean value	ToInt16()	to a ´ signe integ
ToByte()	to an 8-bit unsigned integer	ToInt32()	to a 3 signe integ
ToChar()	to a Unicode character	ToInt64()	to a ƙ signe integ
ToDeci- mal()	to a decimal number	ToString()	to its equiv String repre ation
ToDouble()	to a double- precision floating point number	ToUInt16()	to a ´ unsig integ

Arrays Functions	
Array.Sort(arra- yName)	Arranges array items in ascending order
Array.Length	Length of the array
Array.Revers- e(arrayName)	Reverses the order of items in an array

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Arrays Functions (cont)

Array.BinarySea-	Finds a requested
rch(ArrayName,	value in a sorted
value)	array

Do not use BinarySearch() under these circumstances

If your array items are not arranged in ascending order

If your array holds duplicate values and you want to find all of them

If you want to find a range match rather than an exact match

Array

Assigning values to array elements double[] sales = new double [20]; sales[0] = 2100.00; sales[1] = 3256.06; Printing an element value Consol e.W rit eLi ne(sal es[1]); **for loop to search a Parallel Array for (int i = 0; i < nameAr ray.Le ngth; i+</pre> +) if (nameA rray[i] == dwarfName) { do something

Multidimensional Arrays

One-dimen-	Picture as a column of
sional or	values. Elements can be
single-dimen-	accessed using a single
sional array	subscript
Multidime-	Require multiple subscripts
nsional	to access the array
arrays	elements



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Conditional Operators

Conditional AND operator

```
-Determines whether two expressions are
both true
```

-Written as two ampersands (&&)

```
-You must include a complete Boolean
```

expression on each side of the operator Written as If (age >= 0 && age < 12

0)

Conditional OR operator

Used when you want some action to occur even if only one of two conditions is true Written as if (a == 1 | | b+c > 3)

Loops

if stataments if (statement) { do something

while loop

}

do something }//end loop -Definite loop or counted loop Loop for which the number of iterations is predetermined -Indefinite loop Value of a loop control variable is not altered by arithmetic, but instead, is altered by user input (ask user a question inside the loop, exit based on a particular answer) do-while loop do {

do something in the loop }

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Loops (cont)

while (statement) for loop When using a for statement, you can indicate in one place: Starting value for the loop control variable Test condition that controls loop entry Expression that alters the loop control variable for (statement) do something

DateTime and TimeSpan

DateTime(yr, mo,day)	currdt.AddDays(1)
DateTime(yr, mo,day,	currdt.Subtract-
hr, min, sec)	Days(1)
DateTime.Parse("-	TimeSpan(hrs,mi-
1/1/2015")	n,sec)
DateTime.Now	TimeSpan.Fro- mSeconds(120)

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