	Chapter 2 - Java Refresher
	国际的自然的问题,但是不是一种的问题。(1955年),他们是一种的问题,但是一种的问题,但是一个一种的问题,但是一个一个一个一个一个一个一个一个一个一个一个一个
The second	Java is an amazing Object oriented programming language. We will use Java to create android apps.
	We will use Java to create androit apps.
	Some Salaminian and marches and
	The main method
	The main method  The Java program starts executing from here
	many and an army parties of the second
	public static void main (String[] args) {  // Code  }
	11 Code
	System out trially 1/2 Hello + name : ?
	Printing to the console
	Printing to the console  The following code prints "Hello World" to the console:
1	
	System. out. println ("Hello World");
	A WAS SHILL
	Variables in Java
	Variables are buckets in memory
	String actionNow; > String is used to store seq of characters int marks; > int is used to store numbers
	int value = 7;
	Ly value
	Type (12) of (1) of (1) of
	Last of trained former bearing by the took
	Comments
	11 Comments are used to write text which doesn't executes
	11 This is a comment
	1+ True is a
	multiline Comment */.

String = Sequence of characters String name = "Harry";

Strings are immutable changed Printing Strings We can concatenate string like this: System out println (" Hello, " + name); String methods 51234" String name = "Harry"; name · length ()
name · tolower Case () name trim() Other data types to Store numbers We can store numbers using: byte → -128 to 127 Short  $\rightarrow -(2^{16}/2)$  to  $2^{16}/2-1$ int  $\rightarrow -(2^{32}/2)$  to  $(2^{32}/2-1)$ float  $\rightarrow$  used to store decimel values (4 bytes) [ex. 10 1f long  $\rightarrow -(2^{67}/2)$  to  $(2^{67}/2-1)$ double - decimal values of 8 bytes [ex 7.88d

	Booleans
	true or false values
	bootean is Good = true;
	Lord ontobre think but ext uplate) in
	Operators in Java
	These are the types of operators in Java:
17	Arithmetic operators -> a+b, a*b, a/b, a%b
27	Assignment operators $\rightarrow a=3, a+=3$
	Relational Operators -> a < b, a > 3
47	Logical Operators -> (a73) &8 (b < 7)
57	Unary Operators -> a++ b
67	Bitwise Operators -> ~ << 2,1
	(3) you will be look a for while look as way wanted to year to alle
	The control of the second
	We can use If-else to execute instructions when a condition is true
	is feur
	A lands
	if (a73)
	if (a73) { 1/6de 2
	Z A CONTRACTOR OF THE CONTRACT
	else if (a > 1) {
	1 11 code and should all produced are not show
	3
	else & a to between his order state
	11 Code
	3
	This makes any be earlied the true:
	We can use if inside an if, if inside an else and booleans inside if (as conditions)
	if (as conditions)

	Loobs in Java
C	Loops in Java for loop: The Syntax of a for loop looks like this:
	The land of health and and
	for [initialize; check_bool_exp; update) {  // code;  }
	// (ode;
	The are the hope of abreature a large \$
2	while loop: The syntax looks like this:
	25 Assumed about the a grant of a grant of
	While (boolean) &
	11 Code ( ) A ( )
	While (boolean) &  11 Code  3 La Stops when boolean becomes false
	6) Blute Cherden - ~ ~ ~ 2
(3)	do while loop: do-while loop is guaranteed to execute alleast once.
	once. Standing of - 1
ryi.	The con use It else to execute instructional lepan a contil
	do {  // code  ? while (condition);  Note the Semicolon
	11 code
	3 while (condition);
	→ Note the Semicolon
	Functions in Java
	We can use functions to separate logic like this:
	public static void harrysMethod (int a) {
	11 Code
	2
	This method can be called like this: harrys Method (7);
Mini	harrys Method (7);
	Camalabas 25 X 4

	Object Priented Programming
	Object Oriented Programming In OOPs, class is a blueprint for creating objects.
	of the part of the
	a 0b1 1 % / S / S / S / S
	$\begin{array}{c} Obj 1 \\ \hline Obj 2 \\ \hline Obj 3 \end{array}$
	0 by 3 P 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
	Syntax:
	bullic class Harrie &
	bullic Static Vaid this Method (18
100	Made with the control of the control
	3 Sansac Allins and
	Syntax:  public class Harry ?  public Static Void this Method ()?  // Code  3  3
	Descript in slaw with laboring francisco la laboration
	The objects can be created like this:
	The Objects number Newtonia since This .
	Harry h - man Harry ().
	Harry h = new Harry();
	Inheritance in the second second
	The way a sunt of the sunt of
	In Java, we can create classes from another class like this:
	public class Programmer extends Employee & private String language;
	privale string language;
	11 code want to haid a
	•
	Sukm out pratue (" + a)
	Employee Programmer
1	

Arrays in Java We can store Collection of similar items in an Array [7, 10, 11, 21, 88] int[] harry = { 1, 5, 9, 213; System out println (harry [0]); Java Collections Framework
The collections framework in Java allows us to enjoy features
like resignile arrays Arraylist is a class inside Collections framework for Creating resizable varrays. Arraylist harry = new Arraylist(); for Arraylist & other collection methods, visit the java docs Therating through Arraylists
We can iterate through Arraylists like this: for (object 0: harry) & System. out. println ("object: "+ 0); Ly Here harry is an Arraylist

How to view Java Docs Java has a very beautiful documentation where all the details from the API are listed. You can navigate to Google and Search for the docs where you can further search for the Java API you are interested in. white a law program to burn took a sweet a prosessor to trint the following pattern