Java Programming Language
Boilerplate Code
TavaBasics-java
public class Java Basics { public class Java Basics { main (String args[])}
public class Java Basics { public static void main (String args[]){ -2/1/tunction.
3/1/tunction. 3 = d 3+ 30 terminales
1. 11class latin
System. out. printly ("Hello: World");
System. out. printly ("Hello: World"); lloutputline une space.
on terminal - to run
Javac JavaBarics. Java
java JavaBanis, java
Variables in Java. area ot reactangle b
area of reactoring
2 * (a+b) Memory
citeral variables name 4
25 Note 1
Value Value
Data Types in Java
Primitive: byte, short, char, boolean,
already exist int, long, float, double
exist

Non-primitive! String, Array, Clays
non-exist object, interlace Invited (we reed to) ex: public class JavaBasics? public static void main (String args[]){ byte b=8; char ch = 'a'; boolean vour= talse; 19. two mutyel float price = 10.5 int number = 25; long $n_1 = -i$ double price = -i or terminal to 8hort n = 240 ; Jana DanaBana-Jana Data Type 02 1bit
[-128 to 127] Ibyk 1 2345 6 1 1
2 byte
2 byte
1 byte byte short 2 byte Char boolean 1 byte int 4 byte long 8 byte toat 4 byte double 8 byte

Comments in single single 11 Hi there! /#
Hi there! multi line Input in Java next nextIntreppepp rodular took nextline next Byte down (tri) andman the edmini out protes (immbed next Float next Double nextBoolean lype Premation, in Expressions nextshort nextlong public class 7 public class Java Basics? public static void main (String args]) Scanner sc = new Scanner (Systemin); String input = sc. next(); system out println (input); 3 13 widening/implicit Type Convenion + One type to another type only or 1) Compatible int stoat (no tono) 2) Deutination > Source type greater

Type Casting: force conversion float -> int import java.util.*; public class JavaBasics public static void main (String args []) Scanner sc = new Scanner (system in); Hoat number = 99.9998; Int number = (int) number; System. out-proten (number 2); Nexplantan Jyant2Jx sve Type Promotion in Expressions i) Java automatically promotes each byte whort & char operands to int when evaluating an expression. 2) It one operand is long, float or double the whole expression is promoted to long, float & double respectively byte a = 2 byte ans = (byte)(2 * 2) Comunication byte ans = (byte)(2 * 2) Integer me false that my one ald the product location bolts a tri The surface of the su

How is our Code Running? JRE JVM) + Library yermen (2) o Louiston's A 2 Execution > Bytecode -> JVM -> NativeGod ·class Source -> compiler · java · (13 < 14) 1 Compilation oralorago tompon Operators in Java Symbols that tells compiler to perform expression. Some operation. Sum = a + b operands Types of Operators Anithmetic Operators (Binary Unary Temany Relational Operators Logical Operators Bitwise Operators Avignment Operators Arithmetic Operators unary (10 perand) ++ (in cremit) -- (Decrement) Binary (2 operands) 1 % (modulo)