Creating a create it with java estenstion Boilerplate code: public class filename { public static void main (String args[]) { Output in Java: System.out.print ("Output"); How to compile: compile > javac filename java Run) java fikname.java

Unityat in Java system. out print (" system. out. printen (" Lygives nent line Variables in Java Declaring: int a; data type identifiers Data types in Java Mon-primitive Primitive enit byle - 8 bits - (-128 to 127) String Short - 2 bytes class char - 2 Bray boolean - I Object int -4-±1 billion Interface long - 8 float - 4 double - 8

Type Conversion or implicit conversion

Conversion happens when:

(a) type compatible

byle -> short -> int -> float -> long -> double

(b) size of destination type > sixe of source type.

It happens automatically.

Type Casting or narrowing conversion or explicit conversion

float a = 25.9999 f;

int b= (int) a;

System. out. println (b);

output: 25

Type promotion in expressions 1) Java automatically converts each byte, short or chor - int 2) Per agar koi shi ek operand long long, float ya double hai whole expression is converted into long float & double.

Input in Java Write this on top) nent Emport Java. util. *; nent line 4 Int public class JavaBasics ?

file name n Float public static void main (String args [])? " Byte " Double Scanner SC = new Sconner (System:in); n Boolean n Short n Long int a = sc. next Int ();

Operators in Jalva a + b operands Drithmetic Unary Pre increament Post increament ++a /-a a++/a-value change then use first wol then change

Relational equal to not equal to >= Logical operators & & lugical AND logical OR Logical NOT → trece → false false → true Assignment

Conditional Statements else of same as before Ternary operators variable = condition? Statement 1: statement 2; true false Switch Statement Same as before switch (n) { case 2:

break;

break;

default:

Loops

Jor do while

all same as before

for square root Math. sqrt(n)