First Java program - Input/Output, Debugging and Dataty create File A. Main-java : . It should have class Main Convention: whatever we write class first letter should captial letter. It name of tile is main java the name of the class should main and public class. public: Access modifier (It means class can be accessed from anywhere) Main java. public class Main & public static void main (string [] args) 1 System. out . printin ("Hello World!"); To compile: javac Main java It will create by te code. To run: java Main public: Access modifier class! Name group of properties and function main(method: Entry point of java program public (man method): It should be public without calling main how program will run . I.e why we should make it available to execute from anywhere static! main Is entry point. For running class we need obj. it obj is not present how you run. - we have to execute without creating object becz it is first & thing will run i.e why static

void - It is return type of main () method. String Clargs: command line Args (Arguments given from command line / terminal To find path of javac: command! Where javac > public class will be the only class name of file -> Std out stream what is System. out println(); (command Line) Laptop paelegge reference class vanable *How we can take inputs in java? Scanner sc = new scanner (System in) Keyboard Input stream * Primitive data Types! It is nothing but it is the data type we can't break even further. int rollno = 133; String name = "Sachin" 1 // Non-primitive we can break "sachin" in inordual character

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Data Types:
  byte (1)
  short (2)
                 integralvalves
   int (4)
                - default
   long (8)
   Hoat (4)
               & theatmqualues ( Decimal value)
                 > default
    boolean (1) - depend on machine
All data types are having their classes also i.e Wrapper
class it given additional functionality.
          ex! - Integer mo = 133;
* * Comments in Java
  11" ! single line
  /* */ ! multiple line comments .
 int a = 10;
     1 Litreal
    identifier/variable
 int a = 234-000-000;
  next(): Only one word
  nextune(): entire line
   next Dut (); Dutager
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To take character as input? Scanner sc = new Scanner (systemin) 5 char ch = Sc. next. charAt(0); * Casting and Conversion (namowing) (widenig) Automatic (type should be Ex! Float num = 100, (compaitable) int num=10. Hoat = num-Destinction type should be greater than this. int num1 = (int) 67.5f; * Automatic type promotion in expression byte b= so; b= b * 20, emr CE! incompaitable types Vit will promote to int byte 61=201 byte 62230; int ans = b1 + b2; * Java Working on UNICODE

Rule of promotion by default:
i) All byte, short, char value are promoted to in
2) Ib one of the operation in long then entire
 expression will be long.
3) It one of double is present then it will
be promoted double.
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