i) what is Statically typed and Dynamically
typed Programming Language

a) Statically typed Programming Language.

The programming language in which the type of data/information stored in the memory of the variable is defined during the compilation, those are called as Statically/ strictly/ Strongly typed programming Language strictly/ Strongly typed programming Language

b) Dynamically typed Pl: The Programming
Language in which the type of data etc.

Stored in the memory location of the

Variable is defined during the execution,

these are called Dynamically typed

programming language.

Ex: PHP. Python, java script.

2.) What is the variable in java. Variable is the name of the reserved area allocated in memory, in other words, it is the name of memory location. Syntax of Variable (i) Dota Type variable name = value D -> Type of data stored in that variable 2 - name of the variable/memory location (3) -> Data Information stain. that is being stored in that variable/ memory location. int o that to assign a value to variable? Initialization -> Assigning a value to the variable + It is an optional mean . It can be done during declaration cor after the declaration. of the place assigning operators (=) after the variable name and place the variable value agree of: ent a ; 11 declar ation a = 5; 11 Initialization The left operand of '=' sign will be assigned to right operand. (4) instat are Primitive Data = Types. Primitive Data Types are predefined in java and are named by Reserved keywords. Primitive Data types Plocat-point Badelogical 1 Integer 3) character -> byte numbe y bool ean -Y short + chay -> double -> Pat

-> float

-> long

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og i al ool ean O Jitegers a Byte : 1 byte (8 bits) storage is allocated

Ex: byte data=45; Value stored by byte data type -range from -128 to 127.

- (b) short: 2 byte (16 bits) storage is allocated range from - 215 to 215-1 (Ex: Short data = 145;)
- @ int: 4 byte (32 bits) int data= 23456; values stored by ent data type

 stored by ent data type

 sange from -231. to 231-1

a) long: 8 byte (64 bits) Range -2 to -2 -1 Ex: long data = 23456761;

- float point number @ float : A float data type of 32 bits stores a floating point with single precision Ex: float data = 15.6f;
 - (b) double! A double data type of 64 bits stores a floating point number with double precision.

Ex! double data = 15667.9867;

Character e chay: A char date type stores a single character (A to Z, a to Z and any one symbol)

Ex! char a = '\$';

· boolean, is a such a data type (4) Logical withich stores only either true or talse boolean pavan = true;

What are identifiers in Java Identifiers are names given to packages, classes, variable etc. Convention tox identifiers -> The starting letter/character of identifies should be A to Z or a to Z or (dollar sign) \$, - (underscore) - After the starting character, there can be any kind of combination of character -> keyword can't be identifiers. -> In case of more than one word of identifiers use camel case. List of Operators in Java & AsitRmatic Operator + Logical operator -> Increment / Decrement operator -> Reloctional Operator -> Bitwise Operator -> Assignment Operator -> Urany Operator. (7) Explain about Increment and Decrement Operators and give an exp-examples 1) Increment Operator Traverses the value of (++) variable by one Decrement Operator -> Decreases the value of variable by one 1) Increment _ Post The result of post and
Pre pre decrement increment are same but when @ Decrement _ Post _ Pre they accessign to another Jariable makes difference .int a = 5; int b = a++ // post increment ent c= ++a : | pre increment sout (b); 1/5

Sout(c),1/6

int a = 5 int b = --5; // pre decrement int c = 5 -- : // post decrement Sout (b); // 4 Sout (c); // 5