Characters (char) > surrouded by single quotes Strings (String) Jalletion of market W > ") double quotes String sto - "Jatur kumer";

In built functions

Struy Str = "Rahul Sharma"; 6 123456781611

H Indexing always start from Zero O.

int len = str. lugth(); 7 12

(seturn int)

str.

char ch = charAt (index)

(return char)

M. dorAt (5); 7 ch'
[7); 7 ch'
[17); 7 ch'

(1) i (15) i (Indere Out of Lound)

```
u Izhar Haider
Inputs
Christer chu ch = S. rent().charAt(o);
          1) String Ste = S. neut (); 7/1/12 har
  2) String Str = S. nontline(); > [1 Izher Knider
                                          Scanner s = new Scanner(System.in);
      nent > one word
                                         // System.out.println(str);
                                          System.out.println(str1);
    nent line > Line
```

```
izhar haider
izhar haider
=== Code Execution Succ
```

ASCII values -> unique id assigned to each character.

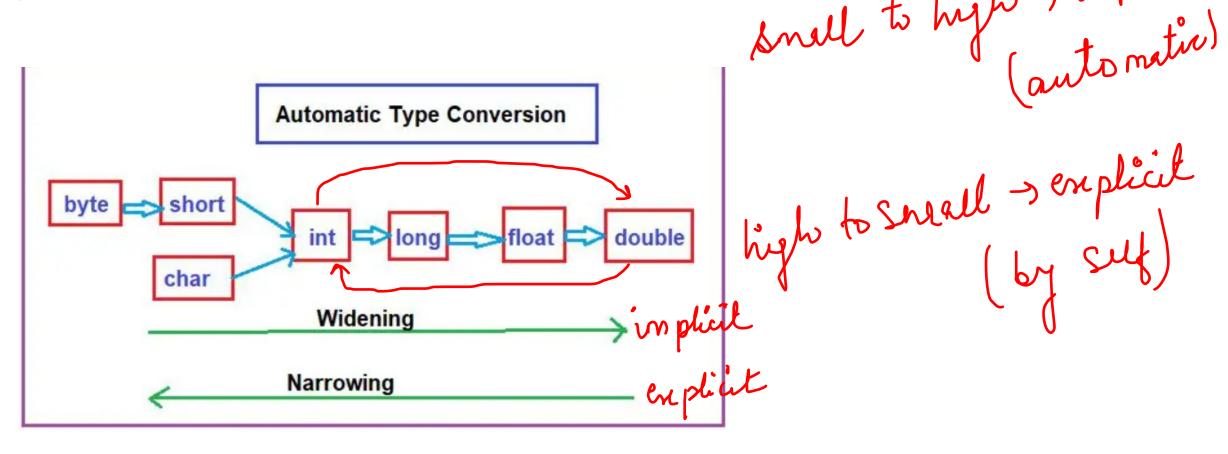
$$(2^{1} \rightarrow 65)$$
 $(2^{1} \rightarrow 97)$
 $(3^{1} \rightarrow 66)$
 $(3^{1} \rightarrow 96)$
 $(3^{$

Type Casting: converting one data type to another. Char ch = (a); 'ent " = (int x char) > Implicit -> automatic conversion Explicit 3 forced conversion (done by us)

chal
$$ch = (d');$$

int $i = 2;$

int $m = (ch + i);$
 $(loi + 2);$



```
int a = 100;
long b = a; // 100
float c = b; // 100

System.out.println(a); // 100
System.out.println(b); // 100
System.out.println(c); // 100.0
```

```
java -cp /tmp/aiIacaNqRi/H
100
100
100.0
=== Code Execution Success
```

```
Implicit
```

ERROR!

/tmp/IFgZ4iUiDN/HelloWorld.java:18: error: incompatible types: possible
lossy conversion from double to long

7 error printed

```
double a = 100.0; // 100.0
long b = (long) a; // 100.0
int c = (int) b; // 100.0

System.out.println(a); // 100.0

System.out.println(b); // 100
System.out.println(c); // 100
```

```
java -cp /tmp/gjsZI
100.0
100
100
=== Code Execution
```

7 Explicit