Lecture 9

Escape Sequence & Emput output in Java

- · Escape Sequence: It is a combination of characters that represents a special character, typically preceded by a backslash (1).
 - -> Eascape requence are used within Strings to Indicate special Characters that can not be typed directly.

In -> moves the cossor to the next line. It - insert a horizontal tab

11 - Insects a backslesh

17 > înserts double quote

1' - inserts a single quote

1b → Priserts a backspace

beginning of the coverent line wathout advancing to the next line)

- form feed

NOTE: - Each of them represents one character, although they consists of two character

These are valid character literals.

The Java Compiler interprets these characters as a single character that adds a specific meaning to the compiler

egi- System. out. pointlin ("Hello In Welcome to Jerry's technies!"); Output: - Hello Welcome to Jenny's lectures!

2) \t 1- injects a horizontal tab e.g. - System. out-pointln (", Hello \t Welcome"); Output: - Hello _ Welcomez

3) \": -> inserts a double quote in the text. e.g: - System. out. pontln ("Hello, Welcome to \" Jenny's Lectures\"."); Output :- Hello, Welsome to "Jenny's lectures".

\' : → însects a single quite we use this escape sequence in cases where directly typing a single quote would cause a syntax error or confusion in the

It is necessary when we are working with the literals.

char ch = (1');

while defining a char literal in Java, it must be enclosed in single quotes. If we want to print a single quote character itself then we need to escape it using \', since the plain single quote without backslesh (1) would be confused with the end of char liferal.

Now we can point this : -System.out. println (ch); _____ But in Java string literals must be enclosed in double quotes (") So technically we don't need to escape single quote when wring them inside a string.

System out println ("Hello, Welcome to Jenny's lectures!"),

no need to escape this sigle quote with \.

But if you want to follow to stylistic consistency, you can use I' here luke: - System. Out. pointh ("Hello, Welcome to Jennyl's Tectures!");

S 11:- inserts a backslash

System out println (" \\ - It's a backslash");

Output: - \ - It's a backslash.

(6) \b: → backspace [moves the cuson one position back with or without deleting the character (depending on the compiler)]

e.g. - System out pointln (" Jenny's Lecturess b.");

Output 1 - Jenny's Lectures

It is often utilized in console or terminal output to overwrite

or ease previously pointed characters. The backspace function (1b) in programming mimics the idea of eresing a character

It is being used to make the console interactive eg! - in Progress bor simulation.

in count down times

1) It: - Causinge Return

It moves the cussor to the beginning of the cusent line, overwriting the output (the text that was previously pointed on that line)

e.g.:- System. out. println ("Hello (Welcome");

Output: - Welcome

* The name comes from the ear of typewriters where the "carriage" would physically return to the starting position of the line

In modern applications the Ir is commonly used in console or terminal based programs to update the output dynamically on the same line, rather than having multiple lines of output for continuously updated information

-) One of the most common uses of Ir is to overwrite a line in the console to simulate a progress bas or countdown.

Overwing temporary output: (If we want to show the status of a test and overwinte it once the test is complete, we can use it to update the status dynamically.

e.g.- public class EscapeDemo {

public static void main (String[] args) throws Interrupted Exception {

System.out. print ("Live class would be started at 8:00 PM.");

Thread. sleep (millis: 2000);

System.out. print ("Ir Welcome to Today's Live class In");

(8) If: - form feed (Not commonly used today, but it was historically used to move to the next page on printers.)

In modern applications it is revely used and its behaviour is undefined and in many cases it simply produces no visible effect on modern terminals or consoles.

9 | UXXXXX : - Unicode character e.g:- System out pointlin ("140041"); Output: - A

JENNYS LECTURES