P. 6	(a) (Strings)			
(FX)	String. In Java.	1		
->	A String in Tava is a sourance of characters enclosed			
	A string in Java is a sequence of characters encrosed in double quotes ("") &. It is not a primitive type; but			
	a crass (java-lang-String). Strings are objects, but java	1		
	1845 to work with them like primitive types.			
•	Create a String			
(i)	Using String Literal			
-	Stored in String pool (memory - Saving Technique).			
	ex > variable _ object			
	Stored in String pool (memory - Saving Technique).  CK > Variable Object  datatype > String Strl = "Hello";			
(11)				
-	Stoted in heap memory, always creates a new object.			
	ex 9			
	String Str2 = new String ("Hello");			
1				
11:11	Internal working or storing.	-		
2 (i) Po	0' 8.1	-		
84.0	String of = "Sol vam"; (thing pool is a sepacte ments the heap.			
//	string b = som (ching pool who heap.	1		
		1		
	Bretiable   Pont	1		
Box	ethe - a - sam	1		
point	the - a - sam  sobject. b - near	0		
Sa	Heap Heap	1		
	Sper	1		
		1		

Sout => System. out. printin ()) (h) String Immutability a String object is created, it cannot be changed. =) Any operation that seems to "change" the string will actually create a new string object in memory. Why String is immulater? => security, Threat-saftey, Caching (string pool), etc. Granple cass s man America & / String str = "Melro"; str. Gncat ("work"); ( Sout (Str); // output mello.) Str points to "Herro". (11) Str. Concat ("world") creates a new Ptake "Homo work" but doesnot & assign it back to str. (11) SAr SHILL POINTS "Herro'll. go. the original etr remains unchanged. the anation That's immutativity.

	Page No.
2.	String Comparison
	To about s
(1)	== ( memory location)
2)	The checks whether both string references point to the same memory location.
	Grample -: 1' String a = "Test"
/	String b 2 "Test";
	Sout (9 = = 5); 11 True
	2) Both a Sb refer to the same abject in the string pool.
(8)	Crampio 2: String a = new String (Test").
XX	Grample 2: String a = new String (Test").  String b= new String (" Test")?  Sout (9=2b) 11 Gise.
	>) new keyword creates new memory objects, even
	HIL CONTRACT IS SOME.
	· equais () (Content)
(11)	· equals () (Content)
>	It Compares Content Only, not memory los
	It compares content only, not memory location - Sor it returns true if characters match, every regardless
1/2	of how strings are created.
	Grample -> 1) String a = "Java";  String 5 = "Java";  Sout (a. equals (b)); //true.
	Content is some - so returns true,

Gr-2 -> String Stre = new String ("Saun");
String Stre = new String ("Java");
Sout (Streenews (Are)); 18 true It has separate objects in heap But the Content are some: So, returns true. It just checks voices/object 3) String Concatenation Operators > String Concatenation means joining two or more strings together to make one Compined String. There are two ways to do! (1) using + operator (2) using the · concart) method Example > String a = "Hello"; (1) // with using (+)
System.out.printle (a+b); //output/ HelloWorld (2) // with uping. Concat (b)); //output > Helloworld

-	
(4)	String Methods
(1)	
(i)	length ()
7	Returns the number of characters in the string.
	Ex -) String name = "Ravi";
4 010	Sout (name leng M ());   output > 4.
(1) 9	CharAt (int index)
7	Returns the character at a given index (storting from 0) & (end at 1 length - 1).
A state of	at $\cdot length - 1$ .
	Example > String word = "Hello";
	Example -> String word = "Hello";  Sout (word · charAt (o)); // output > H
	The same of the sa
Und	
(nd) ->	Substring (int start) and substring (int start, int end)  Extracts a portion of the string from the given index range.  Example -> String name: "Javaprogramming"  South name subariackui): II.
	Extracts a portion of the string from the given index range.
	South name sugar summing"
	Sout (name. Substring (4)); loutput & programming Sout (name. Substring (0,4)); loutput & Java
Je Zela, an	Java (1,4)), (1004/01) Java
(iv)	equals Ig nore Case (String other)
1	Compare two strings ignoring case differences
	Compare two strings ignoring case differences  CK -> String a = "Hello";  String b = "hello";
	String b= "hello";
	Sout (a. equalifgnore Case(b)); //output >> true
	) 1/2 stor > +106

W) toUpper(ase() and to Lower (ase() Example D String S: "Java";

Example D String S: "Java";

Outle tollower Case 11/2 // output D JAVA Sout (s. to Upper (ase ()); //output & JAVA Sout (s. to Lower (ase ()); //output & java Air trim () > Removes leading and training spaces from a string.

Example & String text = " Hello world ";

Sout(text. + sim()); //output > "Hello world"; اززار de contains (charsequence seq) > checks if a string contains a specific sequence of characters.

Example -> String Sentence: "Java is powerful";

Sout (Sentence: Contains ("Java")); "loutput >> true Startwith (String prefix) and endowith (String soffix) The character. Or Character.

String msg = "Hello work!";

Sout (msg. startswith ("Hello"); //output -> true

Sout (msg. endswith ("world"); //output -> true

(ix) reglace (char oldchar, char newther) or replace (string oldstr, or word String Nowsty > Replaces one characters with another.

Example > String test = "banana";

Sout (text-replace (a', 'o'); //output > bonono (X) Split (String delimiter) > Sprits a string into an array based on a pattern or Character (cine i or space). Example > String fruits = "apple, barana, mango"; String[] arr = Avits - Squit(")"); Sout (arrCo]); //apple
Sout (arrCo]); //banana toCharArmy() Converts a string to a character array. -> Geomple -> String name = "Java". charC] cha name to Char Amay(); Il convert to char Array for(char c: ch) f Sout (c); Il print each Character. (xii) index of (char) and last Index of (char) > Returns the index of the first / last occurance of a character or Sub String. Grample & String Word = "banana";

Sout (word index of ('a'); ||output > ]

Sout (word last Endex of ('a'); ||output > 5

XIII) is Entry () & Refurs true if string is empty (" ").

		Date ,
_		Date:
5.	Data Type	
	Ola -	Conversion.
	Tuo	
	TO XTING	From String
	float String. value of (i) float -11 1/6 downte 11 1/6	nt) Intoger. parseInt(str)
	1 16	loat) Float a pracefloat (8tr)
	double 11 ld	locustre) Doubte-parse Double (ser)
	11 (11	(and sorrelated Ctr)
100	Soulean 4 (b	oolean Boolen parge Bablean (Str)
	Char now string (	har() StritocharArray()
	by te String. Venue	of (byte) Byte-parseByte (str)
	Short String. Value	of (Short) Short-parge Short (Str)
16	Java ming For	matting you to insert values (variables) into a string and sythe,
-	String formatting allows	you to insert values (variables) into a string
	with specific structure	and sythe,
7,	String. format()	(10.11.
	er-> String	name = "Ravi";
_	1/4 9	ges 21; Suis Grant/11/10 . "
-	Sanity vestore:	String-format ("Nome: 1.5, Age: Y.d", name, age);  ); //outfut > Name: Ravi, Age: 21
-	Sout Creson	), 1100 100 3 10 10 10 10 10 10 10 10 10 10 10 10 10
-		
2)	System. out . Print () String lange	"Tava";
-	J. 1	17:
1	int housien	intf("long voge: Y.S, Version: Y.d, long, version);
1	System. out - pr	
1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Language: Java, version: 17
1	1/output	