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Byte array to string conversion in android



```
1 public static void main(String a[]){
2
3     String str = "crunchify";
4     byte[] b = str.getBytes();
5     byte[] b1 = Base64.encodeBase64(b);
6     byte[] b2 = Base64.encodeBase64(b1);
7     String decodedStr = new String(b2);
8
9     System.out.println(str);
10    System.out.println(b);
11    System.out.println(b1);
12    System.out.println(b2);
13    System.out.println(decodedStr);
14 }
15 }
```



TYPE	DESCRIPTION	DEFAULT	SIZE	EXAMPLE LITERALS	RANGE OF VALUES
boolean	true or false	false	1 bit	true, false	true, false
byte	twos complement integer	0	8 bits	(none)	-128 to 127
char	unicode character	������	16 bits	"a", "\u0041", "\u001", "�", "\u000", "�"	character representation of ASCII values 0 to 255
short	twos complement integer	0	16 bits	(none)	-32,768 to 32,767
int	twos complement integer	0	32 bits	-2, -1, 0, 1, 2	-2,147,483,648 to 2,147,483,647
long	twos complement integer	0	64 bits	-2L, -1L, 0L, 1L, 2L	-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807
float	IEEE 754 floating point	0.0	32 bits	1.23e100f, -1.23e-100f, .3f, 3.14f	upto 7 decimal digits
double	IEEE 754 floating point	0.0	64 bits	1.23456e300d, -1.23456e-300d, 1e1d	upto 16 decimal digits



If you liked this article, then please share it on social media. Convert String to byte[] Array using getBytes()Convert String to byte[] Array using UTF-8 encodingEncode and Decode to String using Base64 encodingConvert Byte[] to String using new String()Convert Byte[] to String using UTF-8 encoding toString() function on String object wont return actual string but only HashValue. We will manipulate String and byte[] 5 different ways. Here is a code, just incase if you need to do conversion in your application from String to byte[] and vice versa. Convert Java Byte Array to String to Byte Array. Still have any questions about an article, leave us a comment. With over 16 millions+ pageviews/month, Crunchify has changed the life of over thousands of individual around the globe teaching Java & Web Tech for FREE. Look for all comments mentioned in below Java program. crunchifyString : Crunchify Example on Byte[] to String...crunchifyByte : {67, 114, 117, 110, 99, 104, 105, 102, 121, 32, 69, 120, 97, 109, 112, 108, 101, 32, 111, 110, 32, 66, 121, 116, 101, 91, 93, 32, 116, 111, 32, 83, 116, 114, 105, 110, 103, 46, 46, 46}crunchifyString2 : This is test for converting String to byte...!crunchifyByte2 : {84, 104, 105, 115, 32, 105, 115, 32, 116, 101, 115, 116, 32, 102, 111, 114, 32, 99, 111, 110, 118, 101, 114, 116, 105, 110, 103, 32, 83, 116, 114, 105, 110, 103, 32, 116, 111, 32, 98, 121, 116, 101, 46, 46, 33}crunchifyByte2 encoded value : VGhpYBpcyB0ZXN0IGZvcjBjb252ZXJ0aW5mIFN0cm1uZyB0byBieXRRLi4uOQ==crunchifyByte2 decoded value : {84, 104, 105, 115, 32, 105, 115, 32, 116, 101, 115, 116, 32, 102, 111, 114, 32, 99, 111, 110, 118, 101, 114, 116, 105, 110, 103, 32, 83, 116, 114, 105, 110, 103, 32, 116, 111, 32, 98, 121, 116, 101, 46, 46, 33}Decrypted String : This is test for converting String to byte...!Text Decrypted using UTF-8 : This is test for converting String to byte...!Process finished with exit code 0 Let me know if you see any issue running above program. Java Code: package crunchify.com.tutorials;import java.io.UnsupportedEncodingException;import java.nio.charset.StandardCharsets; * In Java How to convert Byte[] Array To String and String to Byte[]?public class CrunchifyByteArrayToString { public static void main(String[] args) throws UnsupportedEncodingException { // Method-1: Convert String to byte[] Array using getBytes() String crunchifyString = "Crunchify Example on Byte[] to String..."; // getBytes() encodes this String into a sequence of bytes using the platform's // default charset, storing the result into a new byte array. byte[] crunchifyByte = crunchifyString.getBytes(); System.out.println("crunchifyString : " + crunchifyString); // toString() Returns a

string representation of the contents of the specified array. // The string representation consists of a list of the array's elements, enclosed in square brackets ("[]"). How to convert UTF-8 byte[] to string? In ideal situation you would avoid using the same in your production ready build. Adjacent elements are separated by the characters ", " (a comma followed by a space). // Elements are converted to strings as by String.valueOf(byte). Love SEO, SaaS, #webperf, WordPress, Java. String stores textual data and for storing binary data you would need byte[]. How to convert Byte[] Array to String in Java? I'm an Engineer by profession, Blogger by passion & Founder of Crunchify, LLC, the largest free blogging & technical resource site for beginners. There are multiple ways you could covert byte[] to String and String to byte[]. Returns "null" if a is null. System.out.println("crunchifyByte : " + Arrays.toString(crunchifyByte)); // Method-2: Convert String to byte[] Array using UTF_8 encoding String crunchifyString2 = "This is test for converting String to byte...!"; byte[] crunchifyByte2 = crunchifyString2.getBytes(StandardCharsets.UTF_8); System.out.println("crunchifyString2 : " + crunchifyString2); System.out.println("crunchifyByte2 : " + Arrays.toString(crunchifyByte2)); // Method-3: Encode and Decode to String using Base64 encoding // encodeToString() Encodes the specified byte array into a String using the Base64 encoding scheme. // This method first encodes all input bytes into a base64 encoded byte array and then constructs // a new String by using the encoded byte array and the ISO-8859-1 charset. String crunchifyEncodedValue = Base64.getEncoder().encodeToString(crunchifyByte2); System.out.println("crunchifyByte2 encoded value : " + crunchifyEncodedValue); // decode() Decodes a Base64 encoded String into a newly-allocated byte array using the Base64 encoding scheme. // An invocation of this method has exactly the same effect as invoking decode(src.getBytes(StandardCharsets.ISO_8859_1)) byte[] crunchifyByte3 = Base64.getDecoder().decode(crunchifyEncodedValue); System.out.println("crunchifyByte2 decoded value : " + Arrays.toString(crunchifyByte3)); // Method-4: Convert Byte[] to String using new String() String crunchifyDecodedData = new String(crunchifyByte3); System.out.println("Decrypted String : " + crunchifyDecodedData); // Method-5: Convert Byte[] to String using UTF_8 encoding String decodedDataUsingUTF8; // UTF_8 is Eight-bit UCS Transformation Format. decodedDataUsingUTF8 = new String(crunchifyByte3, StandardCharsets.UTF_8); System.out.println("Text Decrypted using UTF-8 : " + decodedDataUsingUTF8); Eclipse console Output: Just run above program as Java Application and you should see similar result.

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