URLEncoder And URLDecoder

- description : URLEncoder And URLDecoder
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Percent-encoding

URL   8bit   .
URL   .   %
ASCII   16   .

:, /, ?, #, [,], @, !, $, &, ', (,), *, +, ,, ;, =, %   .
.

No	Character	Encoding	No	Character	Encoding	No	Character	Encoding	No	Character	Encoding
1	:	%3A	6	]	%5D	11	'	%27	16	,	%2C
2	/	%2F	7	@	%40	12	(	%28	17	;	%3B
3	?	%3F	8	!	%21	13	)	%29	18	=	%3D
4	#	%23	9	$	%24	14	*	%2A	19	%	%25
5	[	%5B	10	&	%26	15	+	%2B	20	' '	%20 or +

' '   +(application/x-www-form-urlencoded
)   URL   **%20**   .

Class URLEncoder

HTML form   .   String   application/x-www-form-
urlencoded MIME   . HTML
[HTML](#)   .
.

- "a" ~ "z", "A" ~ "Z"   " 0" ~ " 9"   .
- " ." , " -" , " *"   " _"   .

- " " " + " .
- ,

3 "%xy" . xy 2

16 . UTF-8 . ,

.

UTF-8 , "The string ü@foo-bar"
"The+string+%C3%BC%40foo-bar" . UTF-8 ü 2 C3(16)
BC(16) , @ 1 40(16) .

Class URLDecoder

HTML form . application/x-www-form-urlencoded
MIME .

URLEncoder .
"a" ~ "z", "A" ~ "Z", "0" ~ "9" " -" , " _" , " ." , " *" .
" %" .

.

- "a" ~ "z", "A" ~ "Z" " 0" ~ " 9" .
- " ." , " -" , " *" " _" .
- " +" " " .
- "%xy" xy 8 16

.

, .

.

IllegalArgumentException throw .

.

Example 1

```
package com.ocean.escapehtml;

import java.io.UnsupportedEncodingException;
import java.net.URLDecoder;
import java.net.URLEncoder;

public class PercentEncode {
```

```java
    //           %EB%8F%8C%EC%B2%B4+%EB%B9%84%ED%83%80

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

        String encodedText = "         ";
        encodedText = URLEncoder.encode(encodedText,
"UTF-8").replaceAll("\\+", "%20");
        System.out.println("encodedText ::  " + encodedText);
        // encodedText ::  %EB%8F%8C%EC%B2%B4%20%EB%B9%84%ED%83%80

        String decodedText = encodedText;
        decodedText = URLDecoder.decode(decodedText, "UTF-8");
        System.out.println("decodedText ::  " + decodedText);
        // decodedText ::
    }
}
```

Example 2

```java
package com.ocean.escapehtml;

import java.io.UnsupportedEncodingException;
import java.net.MalformedURLException;
import java.net.URL;
import java.net.URLEncoder;

public class URLEncoderExample {

    public static void main(String[] args) throws MalformedURLException,
UnsupportedEncodingException {
        // base URL
        String baseurl = "https://www.javaguides.net/search?q=";

        // String to be encoded
        String query = "core+java+tutorial";

        URL url = new URL(baseurl + query);
        System.out.println("URL without encoding : " + url);
        // URL without encoding :
https://www.javaguides.net/search?q=core+java+tutorial

        // encode() method
        url = new URL(baseurl + URLEncoder.encode(query, "UTF-8"));
        System.out.println("URL after encoding : " + url);
        // URL after encoding :
https://www.javaguides.net/search?q=core%2Bjava%2Btutorial
```

```
        }
}
```

Example 3

```java
package com.ocean.escapehtml;

import java.io.UnsupportedEncodingException;
import java.net.MalformedURLException;
import java.net.URL;
import java.net.URLDecoder;
import java.net.URLEncoder;

public class URLDecoderExample {

    public static void main(String[] args) throws MalformedURLException,
UnsupportedEncodingException {
        // base URL
        String baseurl = "https://www.javaguides.net/search?q=";

        // String to be encoded
        String query = "core+java+tutorial";

        URL url = new URL(baseurl + query);
        System.out.println("(1) Original URL: " + url);
        // (1) Original URL:
https://www.javaguides.net/search?q=core+java+tutorial

        String encodedStr = URLEncoder.encode(query, "UTF-8");
        url = new URL(baseurl + encodedStr);
        System.out.println("(2) Encoded URL : " + url);
        // (2) Encoded URL :
https://www.javaguides.net/search?q=core%2Bjava%2Btutorial

        // decode() method
        String decodedStr = URLDecoder.decode(encodedStr, "UTF-8");
        System.out.println("(3) Decoded URL : " + baseurl + decodedStr);
        // (3) Decoded URL :
https://www.javaguides.net/search?q=core+java+tutorial
    }
}
```

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