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# Java Programming Day-7



|                                              |                                                                         |
|----------------------------------------------|-------------------------------------------------------------------------|
| <a href="#">Java Array Part-2</a>            | <a href="https://youtu.be/TYsQbNjb_Zo">https://youtu.be/TYsQbNjb_Zo</a> |
| <a href="#">Java Array Part-1</a>            | <a href="https://youtu.be/gx5rC0z7-m8">https://youtu.be/gx5rC0z7-m8</a> |
| <a href="#">User Defined Methods in Java</a> | <a href="https://youtu.be/B41o8400Pfg">https://youtu.be/B41o8400Pfg</a> |
| <a href="#">Predefined Methods in Java</a>   | <a href="https://youtu.be/l7p-iW-qZSw">https://youtu.be/l7p-iW-qZSw</a> |

Email id:  
**[info@curiousinfotecholutions.com](mailto:info@curiousinfotecholutions.com)**

# Syllabus Day-7

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Part-1

Built-in Method

Part-2

User Defined Methods in Java

Part-3

Array in Java



# Categories of Built-in Methods



- 1) String
- 2) Number
- 3) Character
- 4) Array Methods

# compareTo() Methods



- It compares two strings and supports a 3-way comparison.
- Result Criteria for 3-way comparison.
  - If  $str1 = str2$  then 0
  - If  $str1 > str2$  then positive value
  - If  $str1 < str2$  then negative value.

## Equal() Method

It compares two strings, give result true or false.

```
{  
    public static void main (String[] args) {  
        String str1 = "aaaa";  
        String str2 = "AAAA";  
        String str3 = "abcd";  
        String str4 = "aaaa";  
  
        System.out.println(str1.compareTo(str2));  
        System.out.println(str1.compareTo(str2));  
        System.out.println(str1.compareTo(str2));  
    }  
}
```

# concat() Method

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- class Main
- {
  - public static void main(String[] args)
  - {
    - String str1 = "Wel";
    - String str2 = "Çome";
    - Str1 = str1.concat(str2);
    - System.out.println(str1);

- }

# charAt(0) Method

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- class Main
- {
  - Public static void main (String[] args)
  - {
  - String str1 = "abcdef";
  - System.out.println(str1.charAt(4));
  - System.out.println(str1.charAt(5));
  - }
- }

# toUpperCase() Method



- class Main
- {
  - Public static void main(String[] args)
  - {
    - String str1 = "Abcdef";
    - Sring.out.println(str1.toUpperCase());
  - }
- }

# trim() Method

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Removes spaces from  both sides of a string

- class Main
- {
  - Public static void main (String[] Args){
    - String str1 = " aabbccdde ";
    - System.out.println(str1);
    - System.out.println(str1.trim());
  - }
- }

# Substring() Method



- class Main
- {
  - public static void main (String[] args){
  - String str = "Welcome to have Java Programming Testing";
  - System.out.println(str.substring(12)); //Java Programming Testing
  - System.out.println(str.substring(17)); //Programming Testing
  - System.out.println(str.substring(12,20)); //Java Prog
  - System.out.println(str.substring(9,11)); //to
  - }
- }

# endsWith() – Ends with specified suffix



- class Main
- {
  - Public static void main(String[] args)
  - {
    - String str = "Welcome to Java Testing";
    - System.out.println(str.endsWith("Java Testing")); //true
    - System.out.println(str.endsWith("Testing")); //true
    - System.out.println(str.endsWith("Java")); //true
  - }
- }

# length() – returns string length



- class Main
  - {
    - Public static void main(String[] args)
      - {
        - String str = "Java Programming";
        - String str2 = "Programming";
        - System.out.println(str.length()); //16
        - System.out.println(str2.length()); //11
      - }
  - }

# Java Number Methods



- `abs()` – Return Absolute
- `round()` – It rounds the value to nearest integer value.
- `min()` – Return minimum value between two number.
- `max()` – Return maximum value between two numbers.
- `random()` – generates a random number.

# abs() – Return Absolute



- class Main
- {
  - public static void main (String[] args)
  - {
    - double a = 12.234;
    - double b = -12.234;
    - System.out.println(Math.abs(a));
    - System.out.println(Math.abs(a));
  - }
- }

round() – It rounds the value to nearest integer value.



- class Main
- {
  - public static void main(String[] Args)
  - {
    - double a = 12.234;
    - double b = 12.784;
    - double c = 12.51;
    - System.out.println(Math.round(a));//12
    - System.out.println(Math.round(a));//13
    - System.out.println(Math.round(a));//13
  - }
- }

# min() – Return minimum value between two numbers

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- class Main
- {
  - Public static void Main (String[] args)
  - {
    - int a=10, b=20,c=30;
    - System.out.println(Math.min(a,b));//10
    - System.out.println(Math.min(a,Math.min(b,c));//10
  - }
- }

# random() – Generates a random number



- class Main
- {
  - public static void main()
    - {
      - System.out.println(Math.random()); //0.230636346643852204
    - }
- }

# Java Character Method



- `isLetter()` – Checks weather the value is Letter or Not?
- `isDigit()` – Checks weather the value is Number or Not?
- `isUpperCase()` – Checks weather the value is Upper Case or Not?
- `isLowerCase()` – Checks weather the value is Lower Case or Not?

# isLetter() – Check whether the value is Letter or Not?

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- class Main
- {
  - public static void main (String[] args)
  - {
    - char a = 'A';
    - System.out.println(Character.isLetter(a)); //true
  - }
- }