# **JAVA METHODS**

### A. System Class (I/O)

Method	Description
System.out.println()	Prints with newline
System.out.print()	Prints without newline
System.exit(0)	Exits the program

#### **B.** Math Class

Method	Description
Math.max(a, b)	Returns the maximum
Math.min(a, b)	Returns the minimum
Math.pow(a, b)	Returns a^b
Math.sqrt(x)	Square root
Math.abs(x)	Absolute value
Math.round(x)	Rounds to nearest integer
Math.random()	Returns a random double from 0.0 to 1.0

### **C. String Class**

Method	Description
length()	Returns length
charAt(i)	Returns character at index
substring(a, b)	Substring from a to b-1
toLowerCase()	Converts to lowercase
toUpperCase()	Converts to uppercase
equals(str)	Checks equality
equalsIgnoreCase(str)	Equality ignoring case
contains(str)	Checks if substring exists
replace(old, new)	Replaces characters
trim()	Removes spaces
split(delimiter)	Splits into array

#### D. Character Class

Method	Description
isDigit(c)	Checks if digit
isLetter(c)	Checks if letter
isUpperCase(c)	Uppercase check
isLowerCase(c)	Lowercase check
toUpperCase(c)	Converts to uppercase
toLowerCase(c)	Converts to lowercase

### iii E. Arrays Class (java.util.Arrays)

Method	Description
sort(arr)	Sorts array
binarySearch(arr, key)	Searches
copyOf(arr, newLength)	Copies array
equals(arr1, arr2)	Compares arrays
fill(arr, value)	Fills with value
toString(arr)	Converts to string

## F. Collections Class (java.util.Collections)

Method	Description
sort(list)	Sorts a list
reverse(list)	Reverses list
shuffle(list)	Random order
max(list)	Max value
min(list)	Min value