# Practical Java OR Operator Programming Questions with Solutions

## 1. Check if a number is even or divisible by 3

int n = 12;  
if (n % 2 == 0 || n % 3 == 0) {  
 System.out.println("Number is either even or divisible by 3");  
}

## 2. Check if a number is negative or zero

int n = -5;  
if (n < 0 || n == 0) {  
 System.out.println("Number is negative or zero");  
}

## 3. Check if a number is a 2-digit number or greater than 100

int n = 105;  
if ((n >= 10 && n <= 99) || n > 100) {  
 System.out.println("Number is either two-digit or greater than 100");  
}

## 4. Check if a character is vowel or digit

char ch = 'e';  
if ("aeiouAEIOU".indexOf(ch) >= 0 || Character.isDigit(ch)) {  
 System.out.println("Character is either a vowel or a digit");  
}

## 5. Check if a number is multiple of 5 or 7

int n = 35;  
if (n % 5 == 0 || n % 7 == 0) {  
 System.out.println("Number is multiple of 5 or 7");  
}

## 6. Check if a string starts with 'A' or ends with 'z'

String str = "Amazon";  
if (str.startsWith("A") || str.endsWith("z")) {  
 System.out.println("String starts with A or ends with z");  
}

## 7. Check if user is minor (age < 18) or senior (age > 60)

int age = 65;  
if (age < 18 || age > 60) {  
 System.out.println("User is either minor or senior citizen");  
}

## 8. Check if a number is either less than 50 or greater than 200

int num = 220;  
if (num < 50 || num > 200) {  
 System.out.println("Number is out of the range 50 to 200");  
}

## 9. Check if a year is either a leap year or divisible by 100

int year = 2100;  
if ((year % 4 == 0 && year % 100 != 0) || year % 400 == 0) {  
 System.out.println("Leap Year");  
} else {  
 System.out.println("Not a Leap Year");  
}

## 10. Check if username or password is empty

String username = "";  
String password = "1234";  
if (username.isEmpty() || password.isEmpty()) {  
 System.out.println("Username or password cannot be empty");  
}