

1 OperatorsAssignment.pdf U J CondiobnalStatementsExample.java 5, U X Settings Development Environment setup 2.pdf

Coding > Java > ConditionalStatements > J CondiobnalStatementsExample.java > Java Language Support > ConditionalStatementsExample

```
4 public class CondiobnalStatementsExample{
5     // • Write a Java method to check if a number is even or odd using if-else.
6     public static void checkEvenOrOdd(int number){
7         if(number%2==0)System.out.println(number+" is a Even NUmber");
8         else System.out.println(number+" is a Odd NUmber");
9     }
10    // • Create a method that prints "Teenager" if age is between 13 and 19, else print "Not Teenager".
11    public static void checkAge(int age){
12        if(age >= 13 && age <= 19 )System.out.println(x:"TeenAger");
13        else System.out.println(x:"Not a TeenAger");
14    }
15    // • Write a method to return the maximum of three numbers using if-elif-else.
16    public static int maxOf3(int a,int b ,int c){
17        if(a>b&&a>c) return a;
18        else if(b>a && b>c) return b;
19        else return c;
20    }
21    // • Check eligibility for a driving license: age ≥ 18 and vision_score ≥ 7.
22    public static void checkEligibility(int age,int vision_score){
23        if(age>=18 && vision_score>=7)System.out.println(x:"Eligible");
24        else System.out.println(x:"Not Eligible");
25    }
26    // • Implement hiring rule logic: candidate is selected only if
27    // • coding ≥ 4, problem-solving ≥ 4, fundamentals ≥ 4, communication ≥ 3, cgpa ≥ 7
28    public static boolean isEligible(int coding,
29    int problem_solving ,
30    int fundamentals,
31    int communication ,
32    int cgpa){
33        if(coding >= 4 &&
34        problem_solving >= 4 && fundamentals >= 4 &&
35        communication >= 3 && cgpa >= 7)return true;
36        return false;
37    }
```

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```
4 public class CondiobnalStatementsExample{
38 // • Create a method that checks whether a number is divisible by 2, 3, both, or none.
39 public static boolean isDivisible(int a){
40     if(a%2 == 0 && a%3 == 0)return true;
41     return false;
42 }
43 }
44 // • Check if a number lies within a given range [10, 20]. Print appropriate message.
45 public static boolean isRange(int n){
46     if(n>=10&&n<=20)return true;
47     return false;
48 }
49 // • Using or operator, check if either marks in English or Maths is ≥ 90 → print "Merit".
50
51 public static void checkMerit(int englishMarks, int mathMarks) {
52     if (englishMarks >= 90 || mathMarks >= 90) {
53         System.out.println(x:"Merit Student ");
54     } else {
55         System.out.println(x:"Not eligible for merit category.");
56     }
57 }
58 // • Create a nested if structure to check: if student passes internal → check if CGPA ≥ 8 → print scholarship message.
59 public static void checkScholarship(boolean passedInternal, double cgpa) {
60     if (passedInternal) {
61         if (cgpa >= 8.0) {
62             System.out.println(x:"Scholarship Granted <");
63         } else {
64             System.out.println(x:"Passed internals, but not eligible for scholarship.");
65         }
66     } else {
67         System.out.println(x:"Did not pass internal exams.");
68     }
69 }
```



```

70 // • Write a method that takes a Boolean variable eligible and prints "Allowed" if not false. Use ! operator.
71 public static void checkEligibility(boolean eligible) {
72     if (!eligible) {
73         System.out.println(x:"Not Allowed ");
74     } else {
75         System.out.println(x:"Allowed ");
76     }
77 }

```

Run | Debug | Run main | Debug main

```

78 public static void main(String[] args) {
79     System.out.println(x:"--- 1. Even or Odd ---");
80     checkEvenOrOdd(number:5);
81
82     System.out.println(x:"\n--- 2. Teenager Check ---");
83     checkAge(age:16);
84
85     System.out.println(x:"\n--- 3. Max of 3 Numbers ---");
86     int max = maxOf3(a:12, b:25, c:19);
87     System.out.println("Maximum: " + max);
88
89     System.out.println(x:"\n--- 4. Driving License Eligibility ---");
90     checkEligibility(age:20, vision_score:8);
91
92     System.out.println(x:"\n--- 5. Hiring Criteria ---");
93     boolean selected = isEligible(coding:5, problem_solving:4, fundamentals:4, communi...3, 8);
94     System.out.println(selected ? "Selected for Job" : "Not Selected");
95
96     System.out.println(x:"\n--- 6. Divisibility by 2 and 3 ---");
97     System.out.println("Is 12 divisible by 2 and 3? " + isDivisible(a:12));
98
99     System.out.println(x:"\n--- 7. Range Check (10-20) ---");
100    System.out.println("Is 15 in range? " + isRange(n:15));
101
102    System.out.println(x:"\n--- 8. Merit Check ---");

```