

Python – Conditional Statements Assignment Questions

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conditional_Statement.py > ...
1  """ Python Conditional Statements Assignment Questions """
2  # -----
3  # 1. Write a Python program to check if a number is positive, negative, or zero.
4
5  number = 0
6
7  if (number > 0):
8      print("Number is positive")
9
10 elif (number < 0):
11     print("Number is negative")
12
13 else:
14     print("The number is Zero")
15 # -----
16
17 # 2. Given a student's score, write a program to print "Pass" if score ≥ 40, otherwise print "Fail".
18
19 Score = 40
20
21 if (Score >= 40):
22     print("Pass")
23
24 else:
25     print("Fail")
26 # -----
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27 # -----
28 # 3. Write a program that checks if a given year is a leap year.
29 # ChatGPT
30
31 year = 2025
32
33 if year % 400 == 0:
34     print(f"{year} is leap year")
35
36 elif year % 4 == 0 and year % 100 != 0:
37     print(f"{year} is leap year")
38
39 else:
40     print(f"{year} is not a leap year")
41 # -----
42
43 # 4. Given 3 integers, write a program to find the largest number using if-elif-else.
44
45 def largest_number(num1, num2, num3):
46
47     if num1 >= num2 and num1 >= num3:
48         print(f"The largest number is {num1}")
49
50     elif num2 >= num1 and num2 >= num3:
51         print(f"The largest number is {num2}")
52
53     else:
54         print(f"The largest number is {num3}")
55 largest_number(50, 20, 40)
56 # -----
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57
58 # 5.Evaluate if a candidate passes technical round using:
59 # o coding_skill ≥ 4
60 # o problem_solving ≥ 4
61 # o cs_fundamentals ≥ 4
62 # (Use and operator)
63
64 def technical_round(coding_skill,problem_solving,cs_fundamentals):
65
66     if coding_skill >= 4 and problem_solving >= 4 and cs_fundamentals >= 4:
67         print("you Pass the technical round")
68
69     else:
70         print("you fail better luck next time ")
71
72 technical_round(3,4,5)
73 # -----
74
75 # 6.Check if a candidate meets communication and CGPA criteria:
76 # o CGPA ≥ 7.0
77 # o communication ≥ 3
78
79 def criteria(CGPA:float,communication:float):
80
81     if CGPA >= 7.0 and communication >= 3 :
82         print("meet the criteria")
83
84     else:
85         print("not meet the criteria")
86
87 criteria(8.7,3)
88 # -----

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90 # 7.Based on inputs, decide hiring decision using nested if:
91 # o Check technical first, then CGPA & communication
92
93 def hiring_decision(technical:int,CGPA:float,communication:int):
94
95     if technical >= 4:
96
97         if CGPA >= 5.0:
98
99             if communication >= 5:
100
101                 print("Pass")
102
103             else:
104                 print("fail due to communiction score")
105
106         else:
107             print("fail due to CGPA score")
108
109     else:
110         print("fail due to technical score")
111
112 hiring_decision(4,7,5)
113 # -----
114
115 # 8.Write a program to check if a number is divisible by both 3 and 5 using and.
116
117 def number_divisible(number):
118
119     if number % 3 == 0 and number % 5 == 0:
120         print("the number is divisible by 3 and 5 \n")
121
122     else:
123         print("the nuber is not divisible by both \n")
124
125 number_divisible(10)
126 # -----

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127 # 9.Given a list of candidates with CGPAs, print "Fast-Track" if CGPA > 9 or communication ≥ 4
128 """ChatGPT"""
129
130 def list_of_candidates(CGPA:list,communication:list) -> list:
131     for i in range(len(CGPA)):
132         if CGPA[i] > 9 or communication[i] >= 4:
133             print(f"Fast-Track {i+1}")
134
135         else:
136             print(f"do good {i+1}")
137
138 list_of_candidates([9,5,6],[4,5,3])
139 # OR
140 candidates = [
141     {"name": "Alice", "cgpa": 9.2, "communication": 3},
142     {"name": "Bob", "cgpa": 8.5, "communication": 4},
143     {"name": "Charlie", "cgpa": 7.8, "communication": 3},
144     {"name": "David", "cgpa": 9.5, "communication": 5},
145 ]
146
147 for candidate in candidates:
148     if candidate["cgpa"] > 9 or candidate["communication"] >= 4:
149         print(f"{candidate['name']} -> Fast-Track")
150     else:
151         print(f"{candidate['name']} -> Regular Process")
152 # -----
153
154 # 10.Write a program using not to check if a person is not eligible for a scholarship (i.e., CGPA < 6).
155
156 def scholarship_eligibility(CGPA:float):
157     if CGPA < 6:
158         print("\nNot Eligible for scholarship ")
159     else:
160         print("\nEligible for scholarship")
161
162 scholarship_eligibility(5.9)

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OUTPUTS:

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The number is Zero
Pass
2025 is not a leap year
The largest number is 50
you fail better luck next time
meet the criteria
Pass
the nuber is not divisibile by both

Fast-Track 1
Fast-Track 2
do good 3
Alice -> Fast-Track
Bob -> Fast-Track
Charlie -> Regular Process
David -> Fast-Track

Not Eligible for scholarship

```