

Python Assignment 1

Topic : If Statement

1. Write a program to input any year and check whether it leap year or not.
2. Write a program to input any number and print its absolute value.
3. Write a program to find out commission earned by a salesman. If his/her monthly sales is above 50000 then give 10% otherwise give 5% of monthly sales.
4. Write a program to input three angles of a triangle and find out whether it is a proper triangle or not.
5. Write a program to input two numbers and an operator (+, *, -, /, **) and display result accordingly.
6. Write a program to input age and display appropriate message according to following criteria:

Age (in years)	Category
0-2	Infant
3-12	Child
13-19	Teen
20-60	Adult
Above 60	Senior Citizen

7. Write a program to input two numbers and check whether first number is divisible by second or not.
8. Write a program to input a number, find out whether it ends with 7 or 4 and display appropriate message.

Find the output of the following code snippets:

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a)
x = 3
y = 7
if x > 5 or y < 10:
    print("Condition is true")
else:
    print("Condition is false")
```

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b)
x = 10
if x % 2 == 0:
    print("x is even")
else:
    print("x is odd")
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<pre>c) num = -5 if num > 0: result = "Positive" elif num < 0: result = "Negative" print("The number is:", result)</pre>	<pre>d) grade = 85 if grade >= 90: letter = "A" elif grade >= 80: letter = "B" else: letter = "C" print("Your letter grade is:", letter)</pre>
<pre>d) age = 15 if age < 13: print("Child") elif age < 20: print("Teenager") else: print("Adult")</pre>	<pre>e) number = 0 if number: print("The number is non-zero") else: print("The number is zero")</pre>
<pre>f) temperature = 25 if temperature > 30: print("It's hot outside") elif temperature > 20: print("It's a pleasant day") else: print("It's cold outside")</pre>	<pre>g) a = 10 b = 20 if a < b: print("a is less than b") elif a == b: print("a is equal to b") else: print("a is greater than b")</pre>
<pre>h) x=2 y=1 if x>12: x=x*2 y=x+10 print("x= ",x," , y= ",y)</pre>	<pre>i) x=2 y=4 if x>=y: if x>y: x=x*3 else: y=x+9 print("x= ",x," , y= ",y)</pre>
<pre>j) x=11 y=11 if x!=y: x=x+3 y=x+4 print("x= ",x," , y= ",y)</pre>	<pre>k) x=12 y=4 if x>y: x=x*3 y=x*4 else: x=x+3 y=x+4 print("x= ",x," , y= ",y)</pre>