

1. Write a Python program that takes a number from the user and see if it is divisible by: [The codes for each of the subproblems will be different]
  - a. Both 5 and 7
  - b. 5 or 7
  - c. 5 and not 7
  - d. Either 5 or 7 but not both

If yes, the print “Yes”, otherwise, print “No”. The first one is done for you.

<b>a</b>	<pre>num= int (input( )) if num%5 == 0 and num%7 == 0:     print(“Yes”) else:     print(“No”)</pre>	<b>b</b>	
<b>c</b>		<b>d</b>	

2. Take a number from the user and print whether it is “Odd” or “Even”, and whether it is “Positive”, “Negative” or “Zero”.

<b>Sample Input #1</b> 14 <b>Output:</b> Even Positive	#Your code here
<b>Sample Input #2</b> -1 <b>Output:</b> Odd Negative	
<b>Sample Input #3</b> 0 <b>Output:</b> Even Zero	

3. Take the quiz, mid and final marks of a student, calculate the total marks and print the total marks and grade based on the following table.

Total $\geq$ 90	A
80 $\leq$ Total $\leq$ 89	B
70 $\leq$ Total $\leq$ 69	C
50 $\leq$ Total $\leq$ 49	D
Total $<$ 50	F

<b>Sample Input #1:</b> Quiz: 20 Mid: 25 Final: 45 <b>Output:</b> Total Marks: 90 Grade: A	#Your code here
<b>Sample Input #2:</b> Quiz: 18 Mid: 20 Final: 36 <b>Output:</b> Total Marks: 74 Grade: C	

4. Imagine you want to buy a car. So, you went to a car shop. Depending on the brand, wheel position and horse-power you have to pay some extra tax. Here are the rules:
- If the car is Ferrari, you have to pay 30% extra tax, If the car is Ford, you have to pay 25% extra tax
  - If the car is left-wheeled, you have to pay 10% extra tax
  - If the car uses above 2000 horse-power, you have to pay 10% extra tax.

Now from user, take input the brand of the car ("Ford"/ "Ferrari"), whether it is right or left wheeled ("Right"/ "Left"), and how much horse-power it uses (int). Now calculate the total extra percentage (%) of tax the user has to pay. [Hint: you have to declare a variable and set its value to zero and then keep on adding all the taxes with that variable.]

<b>Sample Input #1:</b> Brand: Ford Wheel: Left Horse-Power: 2500 <b>Output:</b> Extra Tax: 45%	#Your code here
<b>Sample Input #2:</b> Brand: Ferrari Wheel: Right Horse-Power: 2000 <b>Output:</b> Extra Tax: 30%	