

Practice simple if/else

Directions: Write your Python code on Replit and then copy/paste your code here

Remember: For some exercises, you may need to declare and assign a value to a variable to use that variable in the conditional statement

1. `x = 2` `y = 5` `z = 0`

Find values of the following expressions:

| Expression | Result |
|-----------------------------------|--------|
| <code>x == 2</code> | |
| <code>x != 5</code> | |
| <code>x != 5 and y >= 5</code> | |
| <code>z != 0 or x == 2</code> | |
| <code>not y < 10</code> | |

2. Write a conditional statement that checks if the season (variable) is “winter”, “summer”, “spring” or “fall”, and print the activity you do during that season. For example, if the season is “summer”, you should print something like this: “I go to the beach”.

Your code here

3. Write a conditional statement that checks if it is rainy. If it is rainy, print “I stay home”. Otherwise, print an outside activity you do when it is not rainy.

Your code here

4. A school has the following rules for the grading system:

- a. Below 25 - F
- b. 25 to 45 - E
- c. 45 to 50 - D
- d. 50 to 60 - C
- e. 60 to 80 - B
- f. Above 80 - A

Create a variable, assign a value between 0 and 100 (included) and use conditionals to print the corresponding grade.

Your code here

5. A company decides to give an employee a bonus of 5% of the salary if his/her years of service are more than 5 years. Otherwise, the bonus is 2%.

Create a salary variable and another for the years of service and print the net amount that the employee receives (salary + payment).

Your code here

6. Assign values of the length and width of a rectangle and check if it is square or not.

Your code here

7. A shop will give a discount of 20% if the cost of the quantity purchased is more than 100. Otherwise, the discount is only 10%. Print the total amount the shopper has to pay.

Your code here