

Tutorial 3: Conditional Statements

1. The following program computes the absolute value of a number. Dry run the program with input values of 2 and -45 and then write the output of the program.

```
input_val = input("Enter an integer value: ")
n = int(input_val)
if n < 0:
    print("The absolute value of", n, "is", -n)
else:
    print("The absolute value of", n, "is", n)
```

2. Write a program with one assignment statement. You can assign any value of your choice in forming this assignment statement. Use simple `if` statement to check whether the assigned value is less than 10. Display proper message if the condition is true.
3. Write a program with two assignment statements. Assign a negative value to the first variable and a positive value to the second variable. Use simple `if` statement to check whether the values of the variables are equal. Display proper message if the condition is true, otherwise display the message *"End of the program"*.
4. Write a program using `if-else` statement to check whether the mark of a student is greater than 50. You have to enter the value of the mark from the keyboard. Display the message *"You have passed"* if the condition is true, otherwise display the message *"Sorry! You have failed"*.
5. Write a program using `if-else` statement to check whether the input number is divisible by 5 or not. Display the message *"The input number is divisible by 5"* if the condition is true, otherwise displays the message *"The input number is not divisible by 5"*.
6. Write a program using `if-else` statement to check whether the input number is even or not. Get the number as input from the keyboard. Display the number with a proper message as the output of the program.