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Step 2: Input String and Key:
        2.1:Prompt "Enter a string" and store it as msg.
        2.2:Remove the newline character from msg.
        2.3:Prompt Enter an integer key and store it as key.
                msg = user input
                print("Enter an integer key (): ")
                key = user input
Step 3: Initialize Variables:
        3.1:Calculate the length len of msg.
Step 4: Perform XOR and AND Operations:
4.1:For each character i in msg, compute x_r[i] as msg[i] XOR key and a_r[i] as msg[i] AND key.
        for i = 0 to len-1:
         x_r[i] = msg[i] XOR key
        a_r[i] = msg[i] AND key
Step 5: Display Results:
        5.1:Print the original msg.
        5.2:Print the XOR result x_r[i] for each i.
        5.3:Print the AND result a_r[i] for each i.
                for i = 0 to len-1:
                  print x_r[i] as integer
                for i = 0 to len-1:
                  print a_r[i] as integer
Step 6: Stop
```

Step 1: Start