

# SOFTWARE TESTING

## GROUP 4

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# Difference between Testing, QA, and QC

## TESTING

ACTIVITIES THAT  
ENSURE THE  
IDENTIFICATION OF  
BUGS/ERROR/DEFECTS  
IN A SOFTWARE.



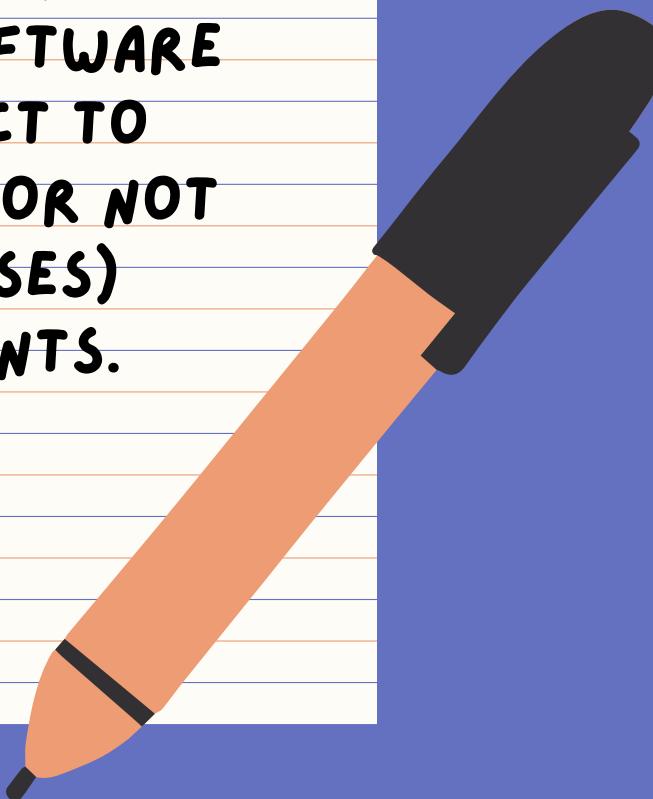
## QUALITY ASSURANCE

ACTIVITIES THAT ENSURE  
THE IMPLEMENTATION OF  
PROCESSES, PROCEDURES  
AND STANDARDS IN  
CONTEXT TO  
VERIFICATION OF  
DEVELOPED SOFTWARE  
AND INTENDED  
REQUIREMENTS.

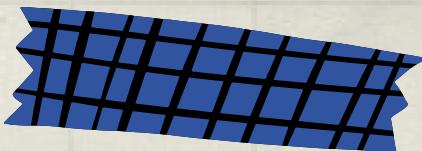


## QUALITY CONTROL

ACTIVITIES THAT ENSURE  
THE VERIFICATION OF A  
DEVELOPED SOFTWARE  
WITH RESPECT TO  
DOCUMENTED (OR NOT  
IN SOME CASES)  
REQUIREMENTS.

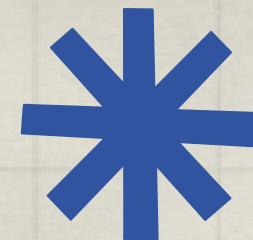


# Difference between Audit and Inspection



## AUDIT

AN INDEPENDENT REVIEW AND EXAMINATION OF RECORDS AND ACTIVITIES TO ASSESS THE ADEQUACY OF THE SYSTEM CONTROLS, TO ENSURE COMPLIANCE WITH ESTABLISHED POLICIES AND OPERATIONAL PROCEDURES, AND TO RECOMMEND NECESSARY CHANGES IN CONTROLS, POLICIES AND PROCEDURES.



## INSPECTION

A TYPE OF APPRAISAL EXECUTION INDICATING THAT THE REGULAR AUTHORITIES ARE ASSESSING DOCUMENTS, RECORDS, FACILITIES, TO VERIFY A CERTAIN SET OF STANDARDS. THIS IS A NON-DESTRUCTIVE TYPE OF TESTING THAT DOES NOT HARM THE PRODUCT UNDER EVALUATION.



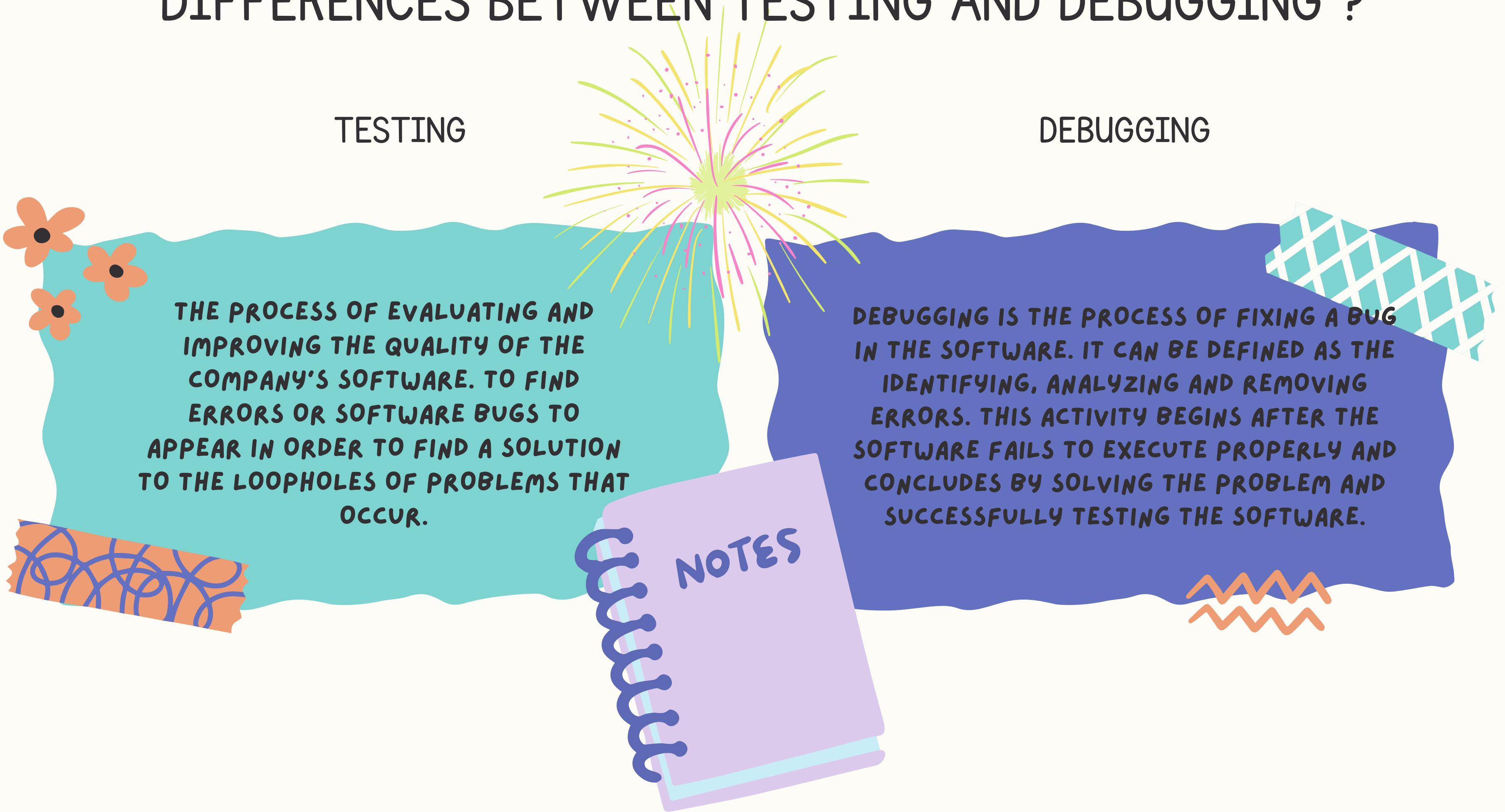
# DIFFERENCES BETWEEN TESTING AND DEBUGGING ?

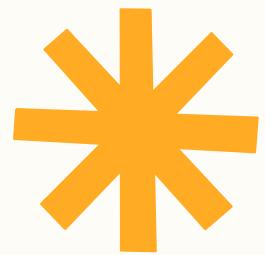
## TESTING

THE PROCESS OF EVALUATING AND IMPROVING THE QUALITY OF THE COMPANY'S SOFTWARE. TO FIND ERRORS OR SOFTWARE BUGS TO APPEAR IN ORDER TO FIND A SOLUTION TO THE LOOPHOLES OF PROBLEMS THAT OCCUR.

## DEBUGGING

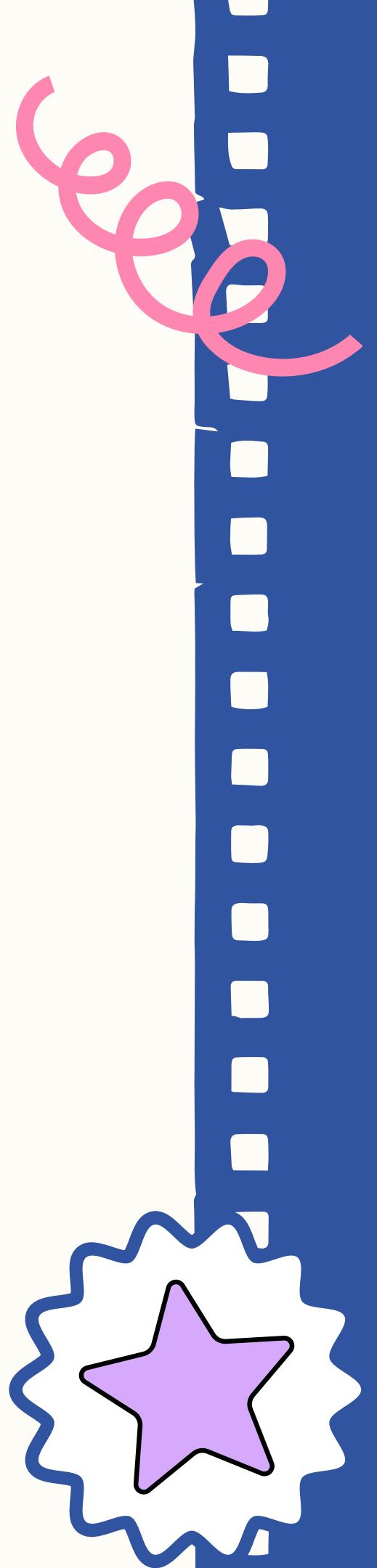
DEBUGGING IS THE PROCESS OF FIXING A BUG IN THE SOFTWARE. IT CAN BE DEFINED AS THE IDENTIFYING, ANALYZING AND REMOVING ERRORS. THIS ACTIVITY BEGINS AFTER THE SOFTWARE FAILS TO EXECUTE PROPERLY AND CONCLUDES BY SOLVING THE PROBLEM AND SUCCESSFULLY TESTING THE SOFTWARE.





# Software Quality Attributes

Features that facilitate the measurement of the performance of a product. A high score in the field



AVAILABILITY

INTEROPERABILITY

PERFORMANCE

SECURITY

USABILITY

FUNCTIONALITY



# STANDARDS : QUALITY ASSURANCE AND TESTING

ISO/IEC 29119 (1-5) : Deals with concepts, definitions, test processes, testing techniques and strategies

ISO/IEC 9126: A popular standard that deals with the quality of the product

IEEE Standards



## References:

[HTTPS://WWW.GEEKSFORGEEEKS.ORG/DIFFERENCES-BETWEEN-TESTING-AND-DEBUGGING/](https://www.geeksforgeeks.org/differences-between-testing-and-debugging/)

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