**Python:**

Write the function that takes three dimensions of a brick: height(a), width(b) and depth(c) and returns true if this brick can fit into a hole with the width(w) and height(h).

Examples

doesBrickFit(1, 1, 1, 1, 1) --> true

doesBrickFit(1, 2, 1, 1, 1)--> true

doesBrickFit(1, 2, 2, 1, 1)--> false

def doesBrickFit(height, width, depth, holeWidth, holeHeight):

l1=sorted([height, width, depth])

l2=sorted([holeWidth, holeHeight])

if l1[0] <= l2[0] and l1[1]<= l2[1] :

return True

else:

return False

**SQL:**

Write an SQL Script to Seed Sample Data (attached below) and answer the below queries:

a) Write an SQL query to fetch worker names with salaries >= 50000 and <= 100000

b) Write an SQL query to fetch the no. of workers for each department in the descending order.

c) Write an SQL query to fetch intersecting records of two tables.

d) Write an SQL query to determine the 5th highest salary without using TOP or limit method.

--GET FIRST NAME, LAST NAME, AND SALARY WHERE SALARY IS BETWEEN 50000 AND 100000

**SELECT FIRST\_NAME, LAST\_NAME, SALARY from WORKERS**

**WHERE SALARY Between 50000 AND 100000;**

--GET DEPARTMENTS AND NUMBER OF EMPLOYEES IN THOSE DEPARTMENTS

**SELECT DEPARTMENT, COUNT(** WORKERS.WORKER\_ID **) AS NUM\_WORKERS FROM WORKERS**

**GROUP BY DEPARTMENT**

**ORDER BY NUM\_WORKERS DESC;**

--GET ALL INTERSECTING RECORDS BETWEEN WORKERS AND BONUSES TABLES

**SELECT \* FROM WORKERS**

**INNER JOIN BONUSES ON WORKERS.WORKER\_ID = BONUSES.WORKER\_REF\_ID;**

--GET FIFTH HIGHEST SALARY WITHOUT LIMIT OR TOP

**SELECT DISTINCT SALARY AS FIFTH\_HIGHEST\_SALARY FROM WORKERS Order by salary Desc**

**WHERE (**

**SELECT COUNT(salary) as Count from WORKERS Where Count <=5) ;**

**Selenium:**

How would you automatically click a screenshot whenever an exception occurs?

in order to capture screenshots of the entire screen using selenium web driver scripts, we can make use of AShot(). AShot() is a webdriver screenshot utility to capture entire page screenshot and is natively supported from Selenium 3 onwards