**Kavin N**

**Codoid Technical task**

**Java**

**1.** Write a Java program to create and throw custom exceptions

Code:**-**

**class** MyException **extends** Exception {

**private** **int** detail;

MyException(**int** a) {

detail = a;

}

**public** String toString() {

**return** "MyException["+detail+"]";

}

}

**class** ExceptionDemo {

**static** **void** compute(**int** a) **throws** MyException {

System.*out*.println("Called compute("+a+")");

**if**(a>5)

**throw** **new** MyException(a);

System.*out*.println("Normal exit");

}

**public** **static** **void** main(String args[]) {

**try** {

*compute*(1);

*compute*(10);

}

**catch** (MyException e) {

System.*out*.println("Caught " + e);

}

}

}

Output:-

Called compute(1)

Normal exit

Called compute(10)

Caught MyException[10]

**11**.Write a program to generate the following output in java?

\*  
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 \*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*\*

Code:-

**class** PrintbelowTriangle {

**public** **static** **void** main(String args[]){

**for**(**int** i=0; i<=4; i++){

**for**(**int** j=0; j<=i; j++){

System.*out*.print("\*"+"");

}

System.*out*.println();

}

}

}

**5**. Write a program to demonstrate method overriding?

Code:-

**class** A4 {

**void** show() {

System.*out*.println("superclass method");

}

}

**class** B4 **extends** A4 {

**void** show() {

System.*out*.println("subclass method");

}

}

**public** **class** Override {

**public** **static** **void** main(String[] args) {

B4 subOb= **new** B4();

subOb.show();

}

}

Output:-

subclass method

**SQL**

**3.** Write a SQL query to Rename the column name.

Query:-

ALTER TABLE table\_name RENAME COLUMN old\_column\_name TO new\_column\_name;

**4**. Write a SQL query to find duplicate records

Query:-

SELECT empno, ename, COUNT(\*) as count FROM emp GROUP BY empno, ename HAVING COUNT(\*) > 1;

**7**. Print max salary for a particular department.

Query:-

SELECT MAX(sal) as max\_salary FROM emp WHERE department = 'Sales';

/\* in this queries, “emp” is a table name and “Sales” is a purticular department name

\*/