Bahria University,

Karachi Campus



LAB EXPERIMENT NO.

06

LIST OF TASKS

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| --- | --- |
| TASK NO | OBJECTIVE |
| 1 | Implement Factory Design pattern on any of the real life scenario. |
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Submitted On:

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**Task No. 1:** Implement Factory Design pattern on any of the real life scenario.

**Solution:**

namespace FactoryDP

{

interface Database

{

void create(string array);

}

class MySql : Database

{

public void create(string array)

{

Console.WriteLine(array +" Database connected.");

}

}

class Oracle : Database

{

public void create(string array)

{

Console.WriteLine(array, " Database connected.");

}

}

class MongoDB : Database

{

public void create(string array)

{

Console.WriteLine(array, " Database connected.");

}

}

class DBFactory

{

public void createTable(string dbTypeConfig)

{

if (dbTypeConfig == "mysql")

{

MySql sql = new MySql();

sql.create(dbTypeConfig);

}

else if (dbTypeConfig == "oracle")

{

Oracle oracle = new Oracle();

oracle.create(dbTypeConfig);

}

else if (dbTypeConfig == "mongodb")

{

MongoDB mongodb = new MongoDB();

mongodb.create(dbTypeConfig);

}

}

}

class Program

{

static string dbType = "mysql";

static void Main(string[] args)

{

DBFactory dBFactory = new DBFactory();

dBFactory.createTable(dbTypeConfig: dbType);

}

}

}

**Output:**

