****

**Lab#6**

**Advance Programming**

**Name: Ayesha Munir**

**Class: BSCS 7B**

**Registration No: 216146**

**Task1:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/mydb";  MongoClient.connect(url,function(err,db){      if(err) throw err;      console.log("database created");      db.close();  }); |

**Task2:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");      dbo.createCollection("customers", function(err,res){          if(err) throw err;  console.log("collection created");      db.close();      })    }); |

**Task3:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");      var myobj={name:"ayesha", address: "rawalpindi"};      dbo.collection("customers").insertOne(myobj,function(err,res) {          if(err) throw err;  console.log("document inserted");      db.close();      });    }); |

**Task4:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");      var myobj=      [{name:"eiman", address: "khushab"},      {name:"sidra", address: "rawalpindi"},      {name:"hania", address: "rawalpindi"},      {name:"zunaira", address: "peshawar"},      {name:"qurat", address: "islamabad"}  ];      dbo.collection("customers").insertMany(myobj,function(err,res) {          if(err) throw err;  console.log("No of documents inserted :"+ res.insertedCount);      db.close();      });    }); |

**Task5:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");      var myobj=      [{\_id:101, name: "chocolates"},      {\_id:102, address: "juices"},      {\_id:103, address: "jellies"}    ];      dbo.collection("products").insertMany(myobj,function(err,res) {          if(err) throw err;  console.log(res);      db.close();      });    }); |

**Task6:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");      dbo.collection("customers").findOne({},function(err,res) {          if(err) throw err;          console.log(" ");  console.log(res.name);      db.close();      });    }); |

**Task7:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");      dbo.collection("customers").find({}).toArray(function(err,res) {          if(err) throw err;          console.log(" ");  console.log(res);      db.close();      });    }); |

**Task8:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");  var query={address: "rawalpindi"};      dbo.collection("customers").find(query).toArray(function(err,res) {          if(err) throw err;          console.log(" ");  console.log(res);      db.close();      });    }); |

**Task9:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");  var mysort={name: 1};      dbo.collection("customers").find().sort(mysort).toArray(function(err,res) {          if(err) throw err;          console.log(" ");  console.log(res);      db.close();      });    }); |

**Task10:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");  var query1={address: "peshawar"};      dbo.collection("customers").deleteOne(query1,function(err,res) {          if(err) throw err;          console.log(" ");  console.log("1 document deleted");      db.close();      });    }); |

**Task11:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");  var myquery={address:/^r/};      dbo.collection("customers").deleteMany(myquery,function(err,obj) {          if(err) throw err;          console.log(" ");  console.log(obj.result.n +"document(s) deleted");      db.close();      });    }); |

**Task12:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");      dbo.collection("customers").drop(function(err,delok) {          if(err) throw err;          console.log(" ");  if(delok) console.log("collection  deleted");      db.close();      });    }); |

**Task13:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");  var myquery={address:"khushab"};  var newvalues={$set:{name:"imran",address:"lahore"}};      dbo.collection("customers").updateOne(myquery,newvalues,function(err,res) {          if(err) throw err;          console.log(" ");   console.log("1 document updated");      db.close();      });    }); |

**Task14:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");      dbo.collection("customers").find().limit(3).toArray(function(err,res) {          if(err) throw err;          console.log(" ");   console.log(res);      db.close();      });    }); |

**Task15:**

|  |
| --- |
| var MongoClient=require("mongodb").MongoClient;  var url="mongodb://localhost:27017/";  MongoClient.connect(url,function(err,db){      if(err) throw err;      var dbo=db.db("mydb");      var myobj={product\_id:102, status:"available"};      dbo.collection("orders").aggregate([{  $lookup:  {      from:"products",      localField:'product\_id',      foreignField:"\_id",      as:"orderdetails"  }      }]) .toArray(function(err,res){          if(err) throw err;          console.log(" ");          console.log(JSON.stringify(res));          db.close();      })  }); |