Slip 24

A) Create a JSP page to accept a number from a user and display it in words:

Example: 123 – One Two Three. The output should be in red color.

Answer :

<%@ page language="java" contentType="text/html; charset=UTF-8"

    pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Number to Words Converter</title>

<style>

    .red-text {

        color: red;

    }

</style>

</head>

<body>

    <h1>Number to Words Converter</h1>

    <form action="convert.jsp" method="post">

        <label for="number">Enter a number:</label>

        <input type="text" id="number" name="number" />

        <br /><br />

        <input type="submit" value="Convert to Words" />

    </form>

    <%-- Check if the number parameter is present in the request --%>

    <% if (request.**getParameter**("number") != null) { %>

        <%-- Convert the number to words --%>

        <%

            String number = request.**getParameter**("number");

            String[] words = {"Zero", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight", "Nine"};

            String result = "";

            for (int i = 0; i < number.**length**(); i++) {

                int digit = Character.**getNumericValue**(number.**charAt**(i));

                result += words[digit] + " ";

            }

        %>

        <%-- Display the result in red color --%>

        <h2><span class="red-text"><%= result %></span></h2>

    <% } %>

</body>

</html>

Output :

B) Write a menu driven program in Java for the following: Assume Emp table with

attributes ( ENo, EName, salary, Desg ) is already created.

1. Insert

2. Update

3. Delete

4. Search

5. Display

6. Exit.

Answer :

import **java**.**util**.**Scanner**;

public class **EmpTable** {

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

**Scanner** scanner = new **Scanner**(**System**.in);

        int choice;

        do {

**System**.out.**println**("\nEmp Table Menu:");

**System**.out.**println**("1. Insert record");

**System**.out.**println**("2. Update record");

**System**.out.**println**("3. Delete record");

**System**.out.**println**("4. Search by ENo");

**System**.out.**println**("0. Exit");

**System**.out.**print**("Enter your choice: ");

            choice = scanner.**nextInt**();

            switch (choice) {

                case 1:

**insertRecord**();

                    break;

                case 2:

**updateRecord**();

                    break;

                case 3:

**deleteRecord**();

                    break;

                case 4:

**searchRecord**();

                    break;

                case 0:

**System**.out.**println**("Exiting...");

                    break;

                default:

**System**.out.**println**("Invalid choice, please try again.");

            }

        } while (choice != 0);

        scanner.**close**();

    }

    private static void **insertRecord**() {

**Scanner** scanner = new **Scanner**(**System**.in);

**System**.out.**print**("Enter ENo: ");

        int ENo = scanner.**nextInt**();

**System**.out.**print**("Enter EName: ");

**String** EName = scanner.**next**();

**System**.out.**print**("Enter salary: ");

        double salary = scanner.**nextDouble**();

**System**.out.**print**("Enter Desg: ");

**String** Desg = scanner.**next**();

*// TODO: Add code to insert record into Emp table*

**System**.out.**println**("Record inserted successfully.");

    }

    private static void **updateRecord**() {

**Scanner** scanner = new **Scanner**(**System**.in);

**System**.out.**print**("Enter ENo to update: ");

        int ENo = scanner.**nextInt**();

*// TODO: Check if record with ENo exists*

**System**.out.**print**("Enter new EName: ");

**String** EName = scanner.**next**();

**System**.out.**print**("Enter new salary: ");

        double salary = scanner.**nextDouble**();

**System**.out.**print**("Enter new Desg: ");

**String** Desg = scanner.**next**();

*// TODO: Add code to update record in Emp table*

**System**.out.**println**("Record updated successfully.");

    }

    private static void **deleteRecord**() {

**Scanner** scanner = new **Scanner**(**System**.in);

**System**.out.**print**("Enter ENo to delete: ");

        int ENo = scanner.**nextInt**();

*// TODO: Check if record with ENo exists*

*// TODO: Add code to delete record from Emp table*

**System**.out.**println**("Record deleted successfully.");

    }

    private static void **searchRecord**() {

**Scanner** scanner = new **Scanner**(**System**.in);

**System**.out.**print**("Enter ENo to search: ");

        int ENo = scanner.**nextInt**();

*// TODO: Add code to search for record in Emp table based on ENo*

*// TODO: Print the record if found, otherwise print "Record not found."*

    }

}

**Dot Net Framework**

A) Write a program in C#.Net to create a function to check whether a number is prime or

not.

Answer :

namespace WinFormsApp26

{

    public partial class Form1 : Form

    {

        public Form1()

        {

            InitializeComponent();

        }

        public static String prime(int a)

        {

           Boolean isprime = true;

           int  b = a/2;

            for(int i = 2; i <= b; i++)

            {

                if(a % 2 == 0)

                {

                    isprime = false;

                    break;

                }

            }

            if (isprime)

            {

                return a + " is Prime Number";

            }

            else

            {

                return a + " is Not Prime Number";

            }

        }

        private void button1\_Click(object sender, EventArgs e)

        {

            MessageBox.Show(prime(Convert.ToInt32(textBox1.Text)));

        }

    }

}

Output :

B) Write a VB.NET program to create Author table (aid, aname, book\_ name). Insert the

records (Max 5). Delete a record of author who has written “VB.NET book” and

display remaining records on the data grid view. (Use MS Access to create db.)

Answer :

Imports System.Data.OleDb

Public Class Form1

    Dim con As New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source=C:\Users\Saurabh\Desktop\New folder\Author.accdb")

    Dim adpt As New OleDbDataAdapter("Select \* from Author", con)

    Dim cmd As New OleDbCommand

    Dim ds As New DataSet

    Public Function display()

        adpt.Fill(ds, "Author")

        DataGridView1.DataSource = ds

        DataGridView1.DataMember = "Author"

        Return ds

    End Function

    Private Sub Form1\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

        display()

    End Sub

    Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click

        cmd.Connection = con

        cmd.CommandType = CommandType.Text

        cmd.CommandText = "insert into Author values(" & TextBox1.Text & ",'" & TextBox2.Text & "','" & TextBox3.Text & "')"

        con.Open()

        If cmd.ExecuteNonQuery() Then

            MessageBox.Show("Inserted Successfully...!")

        End If

        con.Close()

        ds.Clear()

        display()

    End Sub

    Private Sub Button2\_Click(sender As Object, e As EventArgs) Handles Button2.Click

        cmd.Connection = con

        cmd.CommandType = CommandType.Text

        cmd.CommandText = "DELETE FROM Author WHERE book\_name='" & TextBox3.Text & "'"

        con.Open()

        If cmd.ExecuteNonQuery() Then

            MessageBox.Show("Deleted Successfully...!")

        End If

        con.Close()

        ds.Clear()

        display()

    End Sub

End Class