Program:

using System; using System.Collections.Generic;

using System.ComponentModel; using System.Data;

using System.Drawing; using System.Linq;

using System.Text; using System.Threading.Tasks;

using System.Windows.Forms; using System.Speech;

using System.Speech.Synthesis; using System.Speech.Recognition;

using System.Threading; using System.Web;

using System.Diagnostics;

namespace VoiceRecognitionImplementation {

public partial class Form1 : Form

{ SpeechSynthesizer ss = new SpeechSynthesizer();

PromptBuilder pb = new PromptBuilder();

SpeechRecognitionEngine sre = new SpeechRecognitionEngine();

Choices clist= new Choices();

public Form1() {

InitializeComponent(); }

private void pictureBox1\_Click(object sender, EventArgs e)

{ sre.RecognizeAsyncStop();

pictureBox1.Enabled = true;

pictureBox1.Enabled = false; }

private void Form1\_Load(object sender, EventArgs e) { }

private void lineShape1\_Click(object sender, EventArgs e) { }

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

{ btnStart.Enabled = true;

btnStop.Enabled = true;

clist.Add(new string[] { "hello", "how are you", "what time is it","open chrome", "thankyou","open university site" });

//( for anotherpurpose) clist.Add(new string[] { "open xxxxx", "close xxxxx" });

Grammar gr = new Grammar(new GrammarBuilder(clist));

try

{

sre.RequestRecognizerUpdate();

sre.LoadGrammar();

sre.SpeechRecognized += sre\_SpeechRecognized;

sre.SetInputToDefaultAudioDevice();

sre.RecognizeAsync(RecognizeMode.Multiple); }

catch(Exception ex) {

MessageBox.Show(ex.Message,"Error");

}

}

void sre\_SpeechRecognized(object sender, SpeechRecognizedEventArgs e)

{

switch (Result.Text.ToString())

{

case "hello":

ss.SpeakAsync("hello ");

break;

case "how are you":

ss.SpeakAsync("i am good and what about you");

break;

case "what time is it":

ss.SpeakAsync("current time is " + DateTime.Now.ToLongTimeString());

break;

case "open chrome":

Process.Start("chrome", "https://www.google.com.pk");

break;

case "thankyou":

ss.SpeakAsync("pleasure is mine umair");

break;

case "open lums":

Process.Start("https://lums.edu.pk");

break;

case "open university site":

Process.Start("https://www.uoh.edu.pk");

break;

case "close":

Application.Exit();

break; }

textContents.Text += Result.Text.ToString() + Environment.NewLine; }

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

{

sre.RecognizeAsyncStop();

btnStart.Enabled = true;

btnStop.Enabled = false;

} } }