**E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**

**DEPARTMENT OF COMPUTER APPLICATIONS**

**Weekly Test II – Answer Key**

**Subject Code/Name: MC9243/Visual Programming Marks: 100**

**Sem/Year: II/IV Time: 3 Hrs**

**Staff Name: Mr.** S.Selvaganapathy  **Date:**

 **PART-A 10\*2=20**

**Answer All the Questions**

1. What are the Primary windows inside the Visual basic environment?

Form, Toolbox, Project Explorer, Property Window, Code Window

1. What is form?

Forms are the basic elements of the user interface in a Visual Basic Application. They provide a framework you can use throughout your application to give a consistent look and feel.

1. Define controls.

Controls are the elements of the user interface with which the user can interact and control the application.

1. Write a sample code for usage of timer control.

The Timer Control is one of the few controls always hidden at run time.

 The timer basically does just one thing; It checks the system clock and acts accordingly.

Timer Control Properties:

 (Name), Enabled, Index, Interval, Left, Tag and Top

 Timer Event:

 Timer

 Example:

 *Private Sub Timer1\_Timer()*

 *Static Time As Integer*

 *Time =time + 1*

 *If Time =60 Then*

 *Time=0*

 *Else*

 *Exit Sub*

 *End If*

 *End Sub*

1. What you mean by variant data type?

The variable declared as a variant type can hold any type of data. For ex: Int, String etc.

1. What is the use of ‘Option Explicit’ statement?

Option Explicit forces the user to declare all variables. It checks in the module for usage of any undeclared variables and report error to the user. The user can thus rectify the error on seeing this error message.

1. Give the role of control arrays.

A control array is a group of controls that shares the same name and type. Adding control arrays uses fewer resources than adding multiple controls of the same type at design time.

1. List out some runtime properties of TextBox control.

SelStart Property, SelLength Property and SelText Property.

1. Differentiate Modal and Modeless Dialog Boxes.

Modal dialog box doesnot allow to navigate to other windows until it is closed but Modeless dialog box allows the user to work on other windows while it is on the screen. Example: Find Dialog box

1. How do you select a text in the TextBox. Give code sample.

 Private Sub Text1\_GotFocus()

Text1.SelStart = 0

Text1.SelLength = 9999

End Sub

 **PART-B 5\*16=80**

1. (a) (i) Discuss the features of Visual basic (6). (ii) What is IDE? Explain in detail Visual Basic IDE (10)

(i)

 Support for GUI, User Friendly (3 Marks)

 Debugging facilities, Database Support, ActiveX support, Packaging (3 Marks)

(ii)

 IDE Definition (2 Marks)

 Menu Bars and Toolbars usage (2 Marks)

 Form Window (2 Marks)

 Property Window (2 Marks)

 Project Explorer and Solution Explorer window (2 Marks)

 **OR**

(b) (i) Write a note on Visual Basic Data types (6) (ii) Discuss Variables and Constants in VB (10)

(i)

 Basic Data types (2 Marks)

 String Data types (2 Marks)

 Special Data types (2 Marks)

(ii)

 Variable Definition (2 Marks)

 Rules for naming the variables (2 Marks)

 Scope of variables (2 Marks)

 Constants, Data type conversions and in-built functions (4 Marks)

1. (a) (i) Classify the Procedure in VB and Give its scope (6) With examples discuss Control statements in Visual Basic (10)

(i)

 Procedure Definition (1 Mark)

 Sub Procedure with example (1 Mark)

 Event Procedure with example (1 Mark)

 General Procedure with example (1 Mark)

 Function procedure with example (1 Mark)

 Property Procedure with example (1 Mark)

(ii)

 Control Statement Definition (2 Marks)

 IF statements with examples (2 Marks)

 SELECT statement with examples (2 Marks)

 DO,WHILE statements with examples (2 Marks)

 FOR statement with examples (2 Marks)

**OR**

(b) (i) Write a VB program to illustrate the SELECT…CASE statement. (8) (ii) Write a VB program to Print the multiplication table by getting the multiplicand and multiplier value in the Text boxes. The table should be displayed in the form when multiply button is clicked. (8)

(i)

 Use of SELECT….CASE statement (2 Marks)

 Structure of SELECT…CASE statement (3 Marks)

 Example Program using SELECT…CASE (3 Marks)

(ii)

 Aim of the Program (1 Mark)

 Step by Step Procedure (2 Marks)

 Program using control statements (4 Marks)

 Sample Output (1 Mark)

1. (a) How will you create control Arrays? Discuss its usage.

Definition for control Array (2 Marks)

Steps in creating control array at design time using copy paste method (4 Marks)

Use of control arrays – Fewer usage of resources, Reduction of design time (6 Marks)

Adding and deleting controls in a control array (4 Marks)

**OR**

(b) Write a simple calculator program to demonstrate control arrays.

 Definition for control Array (2 Marks)

 Step by Step Procedure for control array (4 Marks)

 Program using select case statements and control array controls (8 Marks)

 Sample Output (2 Marks)

1. (a) Discuss the Debugging facilities provided by VB IDE and debug tool box.

 Need for debugging (2 Marks)

 Three Debugging windows: Watch, Immediate, Locals (3 Marks)

 Three types of Errors: Syntax, Logical, Runtime (3 Marks)

 Code setting and Window setting options (4 Marks)

 Tools in Debug Toolbar (4 Marks)

**OR**

(b) With suitable examples illustrate Keyboard and Mouse Events.

Mouse Events definition (2 Marks)

Mouse Events Messages (2 Marks)

Simple Drawing Program using Mouse (4 Marks)

Keyboard Events definition (2 Marks)

Keyboard Events Messages (2 Marks)

Simple Program using Keyboard events (4 Marks)

1. (a) Explain file processing in Visual Basic.

Importance of File Processing (2 Marks)

Three modes of file Processing

(i) Text Mode (Sequential Mode) (3 Marks)

(ii) Random Access Mode (3 Marks)

(iii) Binary Mode (3 Marks)

(iv) Example file processing program (5 Marks)

**OR**

 (b) How to access database with data controls? Discuss. (10) Create an Address Book (6)

Data Controls use (1 Marks)

Two types of Data access Contols: (2 Marks)

 Intrinsic Data Control

 ADO Data Control (ADODC)

Basic Concepts of Data Controls (2 Marks)

Property list of Data Controls (2 Marks)

Bound Controls definition (3 Marks)

Five steps for creating data aware application (3 Marks)

Accessing data through the RecordSet Object (3 Marks)