よ安大学

Topic	1: Basic programming								
Designed for	Electrical Engineering	Class hours		2	Members of each group	1			
Attribute	Professional	Prop	erty	Undergraduates	Course type	Verifying			
Sequence	4	Week No.	4	Location	Computer teaching centr	experimental re			
Content	a) Rank three randomly input numbers in ascending orderb) Determine if the given year is leap year; Find out what season is and how many days of that month for the given month.								
Requirements	 a) Master the naming rules of Object Pascal identifier; b) Master the usage of Object Pascal language standard data type; c) Master the identification and rules of constant and variable in Object Pasca Language; d) Master the usage of operator and expression in Object Pascal Language; e) Maser the conception and identification of class and object; f) Be able to code simple object-oriented programs. 								
Key point	Identification and rules of constant and variable in Object Pascal Language; Conception and identification of class and object.								
Procedure	As the reference	e							
Instrument	Computers with	Delphi7	7.0 ente	rprise.					
Reference	Experiment inst	truction	book of	advanced comput	er programming	5			

よ安大学

Topic	2 Data access control components									
Designed for	Electrical Engineering	Class hours		2	Members of each group	1				
Attribute	Professional	Property		Undergraduates	Course type	Synthetic				
Sequence	7	Week No.	7	Location	Computer teaching centr	experimental e				
Content	_	Design an Access database management program with ADO, the program should be able to browse, update, add, and delete records.								
Requirements	 a) Understand the function of data access control components; b) Master the usage of TTable, TQuery, TDataSource and Tdatabase; c) Master the usage of dbGo; d) be able to connect different types of database with data access contro components. 									
Key point	b) Master the usage of TTable, TQuery, TDataSource and Tdatabase c) Master the usage of dbGo									
Procedure	As the reference	•								
Instrument	Computers with	mputers with Delphi7.0 enterprise.								
Reference	Experiment inst	ruction l	book of	advanced compute	er programming	5				

晨安大学

Topic	3 Data control components							
Designed for	Electrical engineering	Class hours		2	Members of each group	1		
Attribute	Professional	Prop	erty	Undergraduates	Course type	Verifying		
Sequence	9	Week No.	9	Location	Computer teaching cent	experimental re		
Content	Design a data browse program with BIOLIFE.DB from database DBDEMOS							
Requirements	 a) Master the function and usage of Delphi data control components; b) Be able to program simple database application with Delphi data control components. 							
Key point	a) Master the function and usage of Delphi data control components;b) Be able to program simple database application with Delphi data control components.							
	As the reference							
Procedure	As the reference	;						
Procedure Instrument	As the reference Computers with		.0 enter	prise.				



Topic	4 Usage of basic control components							
Designed for	Electrical engineering	Class hours		2	Members of each group	1		
Attribute	Professional	Prop	erty	Undergraduates	Course type	Synthetic		
Sequence	10	Week No.	12	Location	Computer teaching cent	experimental re		
Content	Program to realize animation of track bar and progress bar. Clients could drag the cursor on the track bar to change radius of circle in drawing area (current position as the radius). Percentage of current radius compared with the maximum will be shown by ProgressBar.							
Requirements	b) Master usagec) Be able to pr	 a) Master property and usage of windows object; b) Master usage of common used control components; c) Be able to program simple application with object and control components based on windows. 						
Key point		a) Property and usage of windows object;b) Usage of common used control components;						
Procedure	As the reference							
Instrument	Computers with	Delphi7	.0 enter	prise.				
Reference	Experiment inst	truction	book of	advanced compute	r programming	3		



Topic	5 Maintain data with windows							
Designed for	Electrical engineering	Class hours		2	Members of each group	1		
Attribute	Professional	Prop	erty	Undergraduates	Course type	Synthetic		
Sequence	12	Week No.	14	Location	Computer teaching cent	experimental tre		
Content	Realize a program which maintains database based on Emplyee.db. The program should be functional at record inquiry, insert and removing.							
Requirements	b) Master the us	 a) Master the realization of ranking, inquiry and update; b) Master the usage of field object; c) Be able to program comprehensive database application. 						
Key point	a) Realization of ranking, inquiry and update;b) Usage of field object;							
Procedure	As the reference	•						
Instrument	Computers with Delphi7.0 enterprise.							
Reference	Experiment instruction book of advanced computer programming							

よ安大学

Topic	6 Menu Designing							
Designed for	Electrical engineering	Class hours		2	Members of each group	1		
Attribute	Professional	Property		Undergraduates	Course type	Designing		
Sequence	13	Week No.	15	Location	Computer teaching centr	experimental re		
Content	Realize an ordering menu. The ordering as well as discount dishes ordering function could be implemented by main menu or tool bar. There is status bar at the bottom of the window, which shows instruction of corresponding dish and total price of current ordering.							
Requirements	 a) Understand the structure and function of menu; b) Master menu designing and operation; c) Master the usage and designing of multi – tab; d) Be able to design comprehensive program with menu. 							
Key point	a) Menu designing and operation; b) Usage and designing of multi – tab.							
Procedure	As the reference	e						
Instrument	Computers with	Delphi7	7.0 enter	prise.				
Reference	Experiment instruction book of advanced computer programming							

よ安大学

Topic	7 Multi-tab obje	ect						
Designed for	Electrical engineering	Class hours		2	Members of each group	1		
Attribute	Professional	Property		Undergraduates	Course type	Designing		
Sequence	15	Week No.	17	Location	Computer teaching cent	experimental re		
Content	Realize editor in multi tab text style. There are two tabs: font and color.							
Requirements	 a) Master usage and designing of multi tab; b) Be able to design comprehensive program with multi tab. 							
Key point	Usage and designing of multi tab							
Procedure	As the reference	;						
Instrument	Computers with	Delphi7	7.0 enter	prise.				
Reference	Experiment inst	ruction	book of	advanced compute	er programming	g		

よ安大学

Topic	实验八:使用	SQL 结	构化查试	旬设计程序				
Designed for	Electrical engineering	Class hours		2	Members of each group	1		
Attribute	Professional	Prop	berty	Undergraduates	Course type	Verifying		
Sequence	18	Week No.	20	Location	Computer teaching cent	experimental re		
Content	Realize an appl	Realize an application of SQL inquiry with Query components.						
Requirements	 a) Be ffamiliar with SQL (Structured Query Language), understand the characteristics of the language; b) Master data definition, update and inquiry of SQL; c) Be able to create, maintain and inquire database and table with SQL commands. 							
Key point	a) SQL (Structured Query Language) b) definition, update and inquiry of SQL							
Procedure	As the reference	e						
Instrument	Computers with	Delphi7	'.0 enter	prise.				
Reference	Experiment inst	experiment instruction book of advanced computer programming						