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INFORMATION TECHNOLOGY P1
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MARKING GUIDELINES

	QUESTION 1	
	procedure TfrmQuestion1.btnQ1_1Click(Sender: TObject);	
1.1.1	pnlQ1_1.visible := true;	1
	procedure TfrmQuestion1.imgQ1_1Click(Sender: TObject);	1
1.1.2	pnlQ1_1.Height := pnlQ1_1.Height + 100;	
	pnlQ1_1.Width := pnlQ1_1.Width + 100;	1
		3
1,2	procedure TfrmQuestion1.btnQ1_2Click(Sender: TObject);	1
	Case of	
	rgpQ1_2.ItemIndex	1
	0 : lblQ1_2.Caption := '\$' + IntToStr(iDog);	1
	1 : lblQ1_2.Caption := '\$' + IntToStr(iCat); //1	1
	2 : lblQ1_2.Caption := '\$' + IntToStr(iDog + iCat);	1
	type cast	1
		6
1,3	procedure TfrmQuestion1.btnQ1_3Click(Sender: TObject);	1
	tfile : textfile;	
	redQ1_3.Clear;	1
	sFileName := cmbQ1_3.Text;	1
	assignfile(tfile,sFileName);	1
	reset(tfile);	1
	readln(tfile, sSize);	1
	while not eof(tfile) do	1
	readln(tfile, sLine);	1
	redQ1_3.Lines.Add(sLine) ;	1
	showmessage('Size of art picture : ' + sSize	1
	CloseFile(tFile);	1
		11

1,4	procedure TfrmQuestion1.btnQ1_4Click(Sender: TObject);	1
	edtQ1_4.Font.Name := 'Arial';	
	sOld := edtQ1_4.Text;	1
	for I :=	1
	length(sOld)	1
	downto 1 do	1
	sSlogan := sSlogan +	1
	sOld[I];	1
	memQ1_4.Alignment := taCenter;	1
	memQ1_4.Lines.Add('⌈(⊖⊗)⌋ ');	1
	memQ1_4.Lines.Add(sSlogan);	1
		10
1,5	procedure TfrmQuestion1.btnQ1_5Click(Sender: TObject);	1
	iWeek := 0;	
	rWeight := StrToFloat(sCurrWeight);	1
	iWeight := StrToFloat(sIdealWeight);	
	lstQ1_6.Items.Add(	1
	('Current weight: ' + sCurrWeight);	1
	while	1
	rWeight > (iWeight) do	1
	inc(iWeek);	1
	lstQ1_6.Items.Add('Week: ' +	1
	+ IntToStr(iWeek) + '- ' +	1
	FloatToStr(rWeight));	1
		10
	Total Question 1	40
	QUESTION 2	
2.1.1	procedure TfrmQuestion2.btn2_1_1Click(Sender: TObject);	
	Select Club, ContactName, Email	1
	from Contacts	1
	order by Club	1
	desc	1
		4

2.1.2	procedure TfrmQuestion2.btn2_1_2Click(Sender: TObject);	
	Select Breed,Popularity from GeneralInfo	1
	where Temperament like	1
	"%Loyal	1
	% " and	1
	Popularity >100	1
		5
2.1.3	procedure TfrmQuestion2.btn2_1_3Click(Sender: TObject);	
	Select Breed from GeneralInfo,	1
	Codes where	1
	GeneralInfo.Group = GrpCode	1
	and Codes.Group = '+'	1
	+ quotedstr(sGroup)	1
		5
2.1.4	procedure TfrmQuestion2.btn2_1_4Click(Sender: TObject);	
	UPDATE GeneralInfo	1
	SET Popularity = 121	1
	WHERE Code = "A#dog50"	1
		3
		17
2.1.1	procedure TfrmQuestion2.btn2_2_1Click(Sender: TObject);	
	redQ2_2.lines.add(tblGeneral['Description']);	1
		1

2.2.2	procedure TfrmQuestion2.btn2_2_2Click(Sender: TObject);	
	tblCustomers.First;	1
	while not tblCustomers.eof do begin	1
	sEmail := tblCustomers['CustomerEmail'];	1
	if (Pos('VerizonFios',sEmail)	1
	> 0) then	1
	begin Delete(sEmail,	1
	Pos('Fios',sEmail),4);	1
	tblCustomers.Edit;	1
	tblCustomers['CustomerEmail'] := sEmail;	1
	tblCustomers.Post; end;	1
	tblCustomers.Next; end;	1
		11
		1

2.2.3	procedure TfrmQuestion2.btn2_2_3Click(Sender: TObject);	
	tblGeneral.First;	1
	while not tblGeneral.eof do	1
	tblContacts.First;	1
	while not tblContacts.eof do	1
	if tblGeneral['Code'] = tblContacts['Code'] then	1
	sContact := tblContacts['ContactName'];	1
	redQ2_2.SelAttributes.Style := [fsBold];	1
	redQ2_2.lines.add(tblGeneral['Breed']);	1
	if pos(',',sContact) > 0 then	1
	sContact := sContact + ',';	1
	sEmail := tblContacts['Email']+',';	1
	while length(sContact) > 0 do	1
	redQ2_2.lines.add(copy(sContact,1,	1
	pos(',',sContact)-1)+ #9 +	1
	+copy(sEmail,1,pos(',',sEmail)-1));	1
	delete(sContact,1,pos(',',sContact));	1
	delete(sEmail,1,pos(',',sEmail));	1
	else redQ2_2.lines.add(sContact + #9 + tblContacts['Email']);	1
	tblContacts.Next;	1
	tblGeneral.Next;	20
		32
	Total Question 2	49

	QUESTION 3.1	
3.1.1	constructor TAnimalConsultation.create(sName: string);	1
	fAnimalName := sName;	
	fTreatmentDate := DateToStr(Date());	1
	fAmountDue := 0;	1
	fAmountDue := strtofloat(sLine);	1
		4
3.1.2	function TAnimalConsultation.getAnimalName: string;	1
	Result := fAnimalName;	1
		2
3.1.3	procedure TAnimalConsultation.setTreatmentCode	1
	(iTCode : Integer);	1
	fTreatmentCode := iTCode;	1
		3
3.1.4	procedure TAnimal.CalculateBalance	1
	if addCost then	
	rValue := strtofloat	1
	(inputbox('Enter additional cost', '', '200'));	1
	rValue := arrTreatmentCost[fTreatmentCode]	1
	+ rValue;	1
	fAmountDue := rValue + rValue * rVat / 100 +	1
	iNights * 350 + fAmountDue;	1
		7
	function TAnimalConsultation.toString: string;	
	result := 'Animal name: ' + fAnimalName + #13;	1
	result := result + 'Treatment date: ' + fTreatmentDate + #13;	1
	result := result + 'Amount due: ' + floattostrf(fAmountDue, ffCurrency,	1
	10, 2) + #13;	1
	result := result + '===== ' + #13;	4
		20

	QUESTION 3.2	
3.2.1	procedure TfrmQuestion3.btnQ3_2_1Click(Sender: TObject);	1
	objConsultation := TanimalConsultation	
	.create(cmbQ3_2.text) ;	1
	lbl_Q3_2_1.Caption := objConsultation.getAnimalName;	1
		3
3.2.2	procedure TfrmQuestion3.btnQ3_2_2Click(Sender: TObject);	1
	objConsultation.	
	setTreatmentCode (rgpQ3.ItemIndex + 1);	1
	ShowMessage('Treatment Captured');	1
		3
3.2.3	procedure TfrmQuestion3.btnQ3_2_3Click(Sender: TObject);	
	if MessageDlg('Any additional costs?', TMsgDlgType.mtInformation, mbYesNo, 0)	1
	= mryes then	1
	objConsultation.CalculateBalance (spnQ3.Value, true)	1
	else objConsultation.CalculateBalance (spnQ3.Value, false);	1
	redQ3.Lines.Add(objConsultation.toString);	1
		5
		11
	Total Question 3	31

	QUESTION 4	
4,1	procedure TfrmQuestion4.btnQ4_1Click(Sender: TObject);	1
	for r := 1 to 26 do	
	for c := 1 to 26 do	1
	stgQ4.Cells[c, r] :=	1
	arrVigenere[r, c];	1
		4
4.2.	function TfrmQuestion4.Q4_2Click(Sender:Tobject);	1
	strEncrypted := edtQ4 4 1.Text;	
	strKey := edtQ4Key.Text;	1
	cnt := 1;	1
	for I := 1 to Length(strEncrypted) do	1
	if strEncrypted[I] <> ' ' then	1
	strKeyRepeat := strKeyRepeat +	1
	strKey[cnt];	1
	inc(cnt);	1
	strKeyRepeat := strKeyRepeat + strEncrypted[I];	1
	if (cnt >	1
	Length(StrKey)) then	1
	cnt := 1;	1
	edtQ4 4 2.Text := strKeyRepeat;	1
		13
4,3	procedure TfrmQuestion4.btnQ4_3Click(Sender: TObject);	1
	for I := 1 to length(sEncrytedMessage) do	
	if sEncrytedMessage[I] <> ' ' then	1
	r := ORD	1
	(sRepeatKey[I])	1
	- 64;	1
	c:= 1;	1
	while	1
	sEncrytedMessage[I] <>	1
	arrVigenere[R,C] do	1
	inc(C);	1
	sDecryptedMessage := sDecryptedMessage	1
	+ arrLetters[C];	1
	else	1
		13
	Total Question 4	30
	TOTAL	150