
INFORMATION TECHNOLOGY

9626/04

Paper 4 Advanced Practical
SPECIMEN MARK SCHEME

For Examination from 2017

2 hours 30 minutes

MAXIMUM MARK: 110

This document consists of **12** printed pages.

Task	Answer	Marks
1	Light blue larger circle with dark blue smaller circle inside with a suitable space left for company name	1
	Circles are concentric	1
	White outline of 3 mountains inside smaller inner circle	1
	International Ski Tours fit to the path between circles	1
	Wraps approximately half of circles	1
	Text is clearly visible (1) and has an outline and a shadow (1)	2
	Two skis are present, crossed and do not overlap the larger circle	1
	Skis are layered over inner circle	1
	Skis are layered under mountains and text	1
	Resize the image to 150 pixel × 150 pixel	1
	Save the logo as a .jpg file with the file name IST_logo_ followed by Centre number_candidate number	1

Task	Answer	Marks	
2	Pixels (of different colours)	Objects (with properties)	2
	Larger – or Vector smaller (colour and position of each pixel stored)	Only properties of objects stored	2
	Lose quality/definition (blocky/pixelated)	No loss of quality/definition	2
	.bmp (only)	.svg (only)	2
	.dib, .jpeg, .gif, .tiff, .png	.cgm, .odg, .eps, .xml (not program files .psd, .cdr, .ai etc.)	2

Task	Answer	Marks
3	Logo used created above and correct frame size set	1
	Animation of logo – small to large	1
	Smooth gradual growth of logo size	1
	All three images have been used	1
	Correct text on each image in bottom right-hand corner	1
	Text on each image is clearly visible	1
	Each image is displayed for a suitable length of time	1
	Opacity of each image has been changed to create fading effects	1
	Fading of each image is suitably timed	1
	Opacity of text on each image has been changed to create fading effect	1
	Text on each image fades in time with image	1
	Animation is smooth	1
	Animation is set to play continuously (loops)	1
	File exported	1
	Suitable file format for website used with correct file name, e.g. .mp4, .flv, .fla, .mov	1

Task	Answer	Marks
4	Creates the motion between two objects or images	1
	Gives the animation a smooth appearance	1

Task	Answer	Marks
5	Customer_details.csv has been imported	1
	Customer_id set as Primary key	1
	Customer age field set as number data type	1
	Instructor_details.csv has been imported	1
	Instructor_id set as Primary key	1
	Adult and Child prices set as currency data type	1
	Adult and Child prices formatted as Euro	1
	A bookings table has been created	1
	Booking_id set as Primary key	1
	[Bookings]![Customer_id] set as lookup – Customer details appear for selection	1
	[Bookings]![Instructor_id] set as lookup – Instructor details appear for selection	1
	[Bookings]!Lesson_Time set as lookup or Booking_Times table created	1
	Customer, Instructor, Lesson_Times selection limited to list	1
	Correct times listed	1
	Lesson_Date set as Date/Time data type	1
	Lesson_Date Date/Time data type in short date format	1
	[Customer_Details]![Customer_id] to [Bookings]![Customer_id]relationship	1
	[Instructor_Details]![Instructor_id] to [Bookings]![Instructor_id]relationship	1
	A form has been created to make bookings	1
	The form has a place to select a customer	1
	Customer details appear for selection	1
	The form has a place to select an instructor	1
	Instructor details appear for selection	1
	The instructor choice is limited to the same ability as that of the customer	1
	A query for the record source has been used	1
	Query fields limited to required fields	1
	The customer names automatically display when selected	1
	The customer age automatically displays when selected	1
	The customer level automatically displays when selected	1
	The instructor name automatically displays when selected	1
	The instructor level automatically displays when selected	1
	The form has a place to enter a date	1
	The form has a list to select a booking time	1
	The booking times are limited to the times available	1
	The lesson price matching the customer age is displayed automatically	2
	The company logo is displayed on the form	1

Task	Answer	Marks
5	Navigation buttons are displayed on the form	1
	Next/Previous and First/Last record buttons are displayed	1
	New and delete record buttons are displayed	1

Task	Answer	Marks
6	Logo and candidate details inserted	1
	Alert shows	1
	Alert displays count	1
	Alert displays the correct count	1
	Alert has a suitable message and spacing	1
	Count box displays results	1
	Count matches Alert display	1
	Correct count displayed	1
	A "Well done....." message is displayed when 3 correct answers	1
	The correct message is displayed	1
	The message is at the response placeholder	1
	The text Enter Draw is displayed	1
	The text Enter Draw appears at the Enter placeholder	1
	The text Enter Draw only appears if 3 correct answers	1
	"Click here...." message is displayed when <3 correct answers	1
	The correct message is displayed	1
	A hyperlink is visible	1
	The text "here" is used as the hyperlink	1
	The hyperlink reloads the page	1
	Repeated submissions do not increment the count	1
	Comment – setting count to 0	1
	Comment – declaring variables	1
	Comment – checking answers – incrementing count – blanking wrong answers	1
	Comment – Alert to display results – count entered on page	1
	Comment – Test count – display response	1

Task	Answer	Marks												
7	3 valid data types listed with valid example of each <table border="1" data-bbox="245 304 1326 613"> <thead> <tr> <th data-bbox="245 304 727 353">Data type</th> <th data-bbox="727 304 1326 353">Example</th> </tr> </thead> <tbody> <tr> <td data-bbox="245 353 727 405">Number – Integer or Floating point</td> <td data-bbox="727 353 1326 405">4, 27, 655354.2, 27.4, 5.63</td> </tr> <tr> <td data-bbox="245 405 727 456">String – Character</td> <td data-bbox="727 405 1326 456">abc, hello world a, F, 3, \$</td> </tr> <tr> <td data-bbox="245 456 727 508">Boolean</td> <td data-bbox="727 456 1326 508">True/false Y/N 1/0 –1/0</td> </tr> <tr> <td data-bbox="245 508 727 560"><i>Also Allow</i></td> <td data-bbox="727 508 1326 560"></td> </tr> <tr> <td data-bbox="245 560 727 613">Array</td> <td data-bbox="727 560 1326 613">GameScores = (124, 99, 121, 105, 132)</td> </tr> </tbody> </table>	Data type	Example	Number – Integer or Floating point	4, 27, 655354.2, 27.4, 5.63	String – Character	abc, hello world a, F, 3, \$	Boolean	True/false Y/N 1/0 –1/0	<i>Also Allow</i>		Array	GameScores = (124, 99, 121, 105, 132)	6
Data type	Example													
Number – Integer or Floating point	4, 27, 655354.2, 27.4, 5.63													
String – Character	abc, hello world a, F, 3, \$													
Boolean	True/false Y/N 1/0 –1/0													
<i>Also Allow</i>														
Array	GameScores = (124, 99, 121, 105, 132)													

Here are some examples of the tasks being worked.

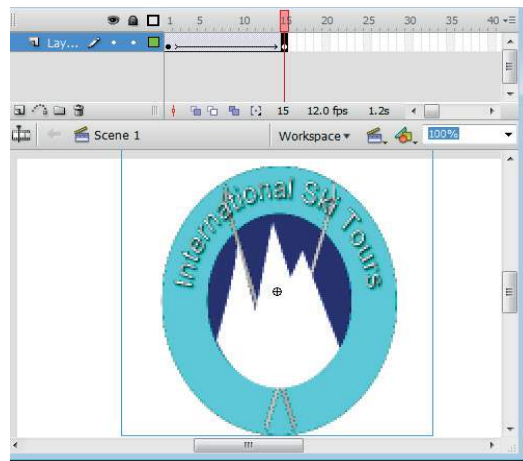
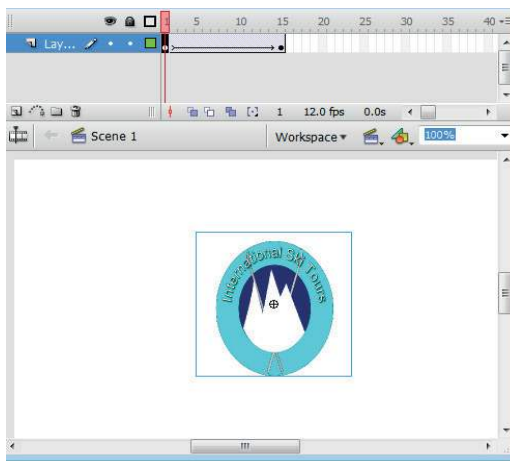
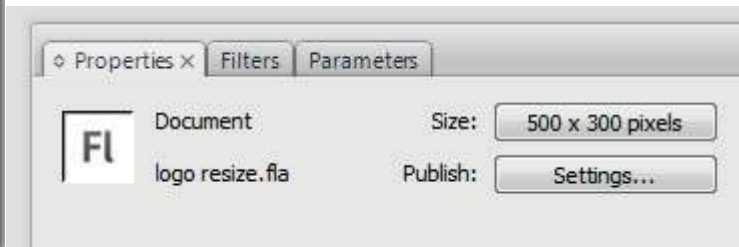
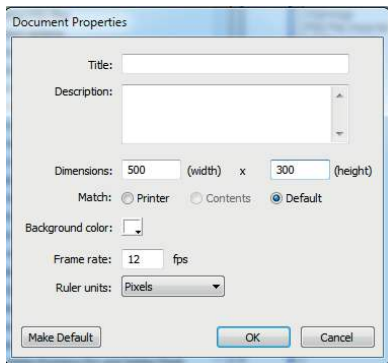
Task 1



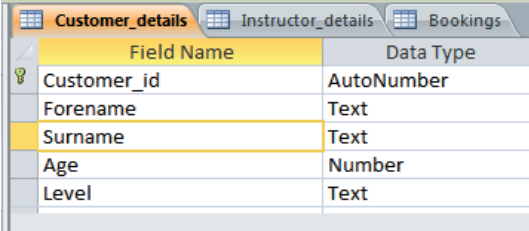
Task 3

Task 3 is marked from the playback of the animation.

EXAMPLES (WHEN USING Adobe Flash)

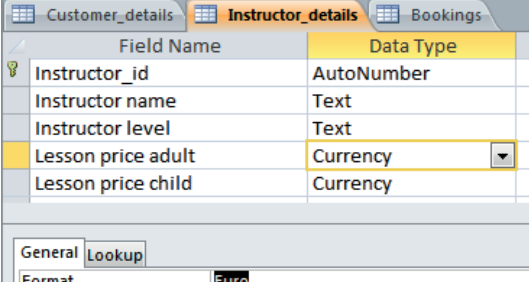


Task 5



Customer_details

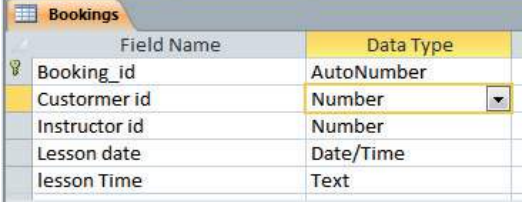
Field Name	Data Type
Customer_id	AutoNumber
Forename	Text
Surname	Text
Age	Number
Level	Text



Instructor_details


Field Name	Data Type
Instructor_id	AutoNumber
Instructor name	Text
Instructor level	Text
Lesson price adult	Currency
Lesson price child	Currency

Format: Euro

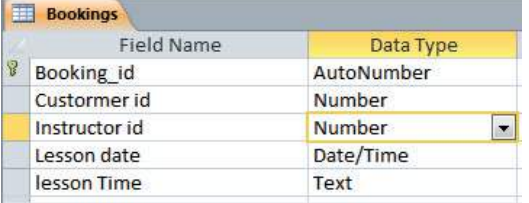


Bookings

Field Name	Data Type
Booking_id	AutoNumber
Customer id	Number
Instructor id	Number
Lesson date	Date/Time
lesson Time	Text

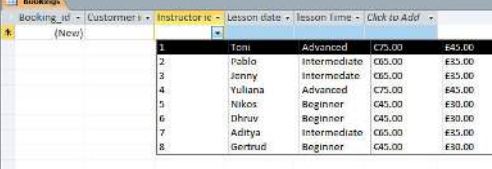


Booking_id	Customer id	Instructor ic	Lesson date	lesson Time	Click to Add
1	Johann	Schmidt	15	Beginner	
2	Steffi	Beckenbauer	24	Intermediate	
3	Maurice	LaPorte	12	Beginner	
4	Venkhat	Dasgupta	38	Advanced	
5	Gurdeep	Dasgupta	41	Intermediate	
6	John	Smith	33	Beginner	
7	Malcom	Jones	27	Intermediate	
8	Fatima	Hedge	45	Advanced	
9	Jorge	Lopez	31	Intermediate	
10	Tanjung	Lu	50	Advanced	



Bookings

Field Name	Data Type
Booking_id	AutoNumber
Customer id	Number
Instructor id	Number
Lesson date	Date/Time
lesson Time	Text



Booking_id	Customer id	Instructor ic	Lesson date	lesson Time	Click to Add
1	Toni	Advanced	C75.00	E45.00	
2	Pablo	Intermediate	C65.00	E35.00	
3	Jenny	Intermediate	C65.00	E35.00	
4	Viliana	Advanced	C75.00	E45.00	
5	Nikos	Beginner	C45.00	E30.00	
6	Dhruv	Beginner	C45.00	E30.00	
7	Aditya	Intermediate	C65.00	E35.00	
8	Gertrud	Beginner	C45.00	E30.00	

Task 5 continued

Bookings

Field Name	Data Type
Booking_id	AutoNumber
Customer id	Number
Instructor id	Number
Lesson date	Date/Time
lesson Time	Text

General | **Lookup**

Display Control	Combo Box
Row Source Type	Value List
Row Source	"09:00";"10:30";"12:00";"14:30";"16:00";"17:30"
Bound Column	1
Column Count	1
Column Heads	No
Column Widths	2.54cm
List Rows	16
List Width	2.54cm
Limit To List	Yes

Bookings

Booking_id	Customer id	Instructor id	Lesson date	lesson Time
(New)				09:00
				10:30
				12:00
				14:30
				16:00
				17:30

Customer_details (Customer_id, Forename, Surname, Age, Level) is linked to **Bookings** (Booking_id, Customer_id, Instructor_id, Lesson date, lesson Time) and **Instructor_details** (Instructor_id, Instructor name, Instructor level, Lesson price adult, Lesson price child).

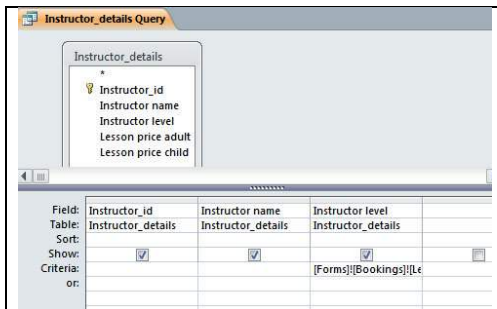
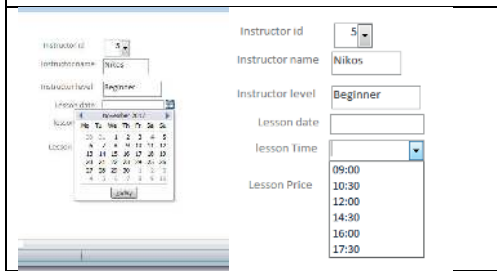

Customer id	Instructor id	Bookings_id	Surname	Forename	Age	Level
1	Johann Schmidt	15	Beginner			
2	Steffi Beckenbauer	24	Intermediate			
3	Máiréa Lafferty	12	Beginner			
4	Venkhet Dasgupta	38	Advanced			
5	Gurdeep Dasgupta	41	Intermediate			
6	John Smith	33	Beginner			
7	Malcom Jones	27	Intermediate			
8	Fatima Hedige	45	Advanced			
9	Jorge Lopez	31	Intermediate			
10	Tanjung Liu	50	Advanced			

Form view showing fields: Booking ID, Customer ID, Forename, Surname, Age, Level, Instructor ID, Instructor Name, Lesson Date, Lesson Price.

Property Sheet
Selection type: Combo Box

Format	Data	Event	Other	All
Control Source	Instructor id			
Row Source	Instructor_details Query			
Row Source Type	Table/Query			
Bound Column	1			
Limit To List	No			
Allow Value List Edits	No			
List Items Edit Form				
Inherit Value List	Yes			
Show Only Row Source Value	No			
Input Mask				

Task 5 continued

													
<p>Bookings_ID <input type="text" value="67"/></p> <p>Customer id <input type="text" value="1"/></p> <p>Forename <input type="text" value="Johann"/></p> <p>Surname <input type="text" value="Schmidt"/></p> <p>Age <input type="text" value="15"/></p> <p>Level <input type="text" value="Beginner"/></p>													
													
<p>Bookings_ID <input type="text" value="71"/></p> <p>Customer id <input type="text" value="1"/></p> <p>Forename <input type="text" value="Johann"/></p> <p>Surname <input type="text" value="Schmidt"/></p> <p>Age <input type="text" value="15"/></p> <p>Level <input type="text" value="Beginner"/></p> <p>Instructor id <input type="text" value="5"/></p> <p>Instructor name <input type="text" value="Nikos"/></p> <p>Instructor level <input type="text" value="Beginner"/></p> <p>Lesson date <input type="text" value="02/11/2017"/></p> <p>Lesson Time <input type="text" value="12:00"/></p> <p>Lesson Price <input type="text" value="€30.00"/></p> <table border="1" data-bbox="263 1422 734 1657"> <tr> <td>Instructor id</td> <td><input type="text" value="Inst"/></td> </tr> <tr> <td>Instructor name</td> <td><input type="text" value="Instructor na"/></td> </tr> <tr> <td>Instructor level</td> <td><input type="text" value="Instructor level"/></td> </tr> <tr> <td>Lesson date</td> <td><input type="text" value="Lesson date"/></td> </tr> <tr> <td>Lesson Time</td> <td><input type="text" value="lesson Time"/></td> </tr> <tr> <td>Lesson Price</td> <td><input type="text" value="=IIf([Age]>=18,[Lesson price adult],[Lesson price child])"/></td> </tr> </table>	Instructor id	<input type="text" value="Inst"/>	Instructor name	<input type="text" value="Instructor na"/>	Instructor level	<input type="text" value="Instructor level"/>	Lesson date	<input type="text" value="Lesson date"/>	Lesson Time	<input type="text" value="lesson Time"/>	Lesson Price	<input type="text" value="=IIf([Age]>=18,[Lesson price adult],[Lesson price child])"/>	
Instructor id	<input type="text" value="Inst"/>												
Instructor name	<input type="text" value="Instructor na"/>												
Instructor level	<input type="text" value="Instructor level"/>												
Lesson date	<input type="text" value="Lesson date"/>												
Lesson Time	<input type="text" value="lesson Time"/>												
Lesson Price	<input type="text" value="=IIf([Age]>=18,[Lesson price adult],[Lesson price child])"/>												
<p>International Ski Tours Bookings Form</p>  <p>Bookings_ID <input type="text" value="71"/></p> <p>Customer id <input type="text" value="1"/></p> <p>Forename <input type="text" value="Johann"/></p> <p>Surname <input type="text" value="Schmidt"/></p> <p>Age <input type="text" value="15"/></p> <p>Level <input type="text" value="Beginner"/></p> <p>Instructor id <input type="text" value="5"/></p> <p>Instructor name <input type="text" value="Nikos"/></p> <p>Instructor level <input type="text" value="Beginner"/></p> <p>Lesson date <input type="text" value="02/11/2017"/></p> <p>Lesson Time <input type="text" value="12:00"/></p> <p>Lesson Price <input type="text" value="€30.00"/></p> <p>Navigation buttons: Home, Previous, Next, Refresh, Print, Save</p>													

Task 6

Solution for information only – task is marked from outcomes on the webpage.

```
<SCRIPT LANGUAGE="JavaScript">
// set count to zero
var c=0;

//declare function
function myFunction() {

// declare and initialise answer variables

var first=Number(Answer1.value);
var second=Number(Answer2.value);
var third=Number(Answer3.value);

//declare and initialise hyperlink variable
var str = "here";
var result = str.link("IST.html");

//test answers
if(first=="2"){c++} else {Answer1.value=""}

if(second=="3") {c++} else {Answer2.value=""}

if (third=="2") {c++} else {Answer3.value=""}

//Display Alert with count of correct answers

window.alert (c + " "+"correct answers");

//Display number of correct answers on page
count.value=c;

//Test Results
if (c==3)

// Display Conditional message and hyperlink
{
document.getElementById("response").innerHTML = "Well done.";}
else
{document.getElementById("response").innerHTML = "Click "+ result + " to try
again";
}
if (c==3)
{
//Display Final text
document.getElementById("Enter").innerHTML =
"Enter Draw";
}
c=0
}

</SCRIPT>
```

Task 6 continued

Insert your name, Centre number and candidate number here.	International Ski Tours	
--	--------------------------------	---

JavaScript Alert ×

0 correct answers

Number of correct answers

Click [here](#) to try again

JavaScript Alert ×

3 correct answers

Number of correct answers

Well done

Prize Draw Quick Quiz

Enter Draw

Enter your choices 1,2,or 3 in the answer boxes