OCR
Oxford Cambridge and RSA

Applied ICT
OCR GCE H115/H315/H715 Unit G047
Unit Recording Sheet

Please read the instructions before completing this form

Examination Session		Year	

Unit Code	G047	Unit Title	Introduction to programming

Centre Number		Centre Name	

Candidate Number		Candidate Name	

Evidence: The candidate produces, for two different programming languages, an annotated program listing for a working program, *that the candidate has been given*, and written in a different language from that used in Task b; annotated program listings for a number of working programs, *that the candidate has written*, to implement designs *the candidate has been given*; a report describing the different types of programming language and the purpose of particular languages, analyzing the choice of languages used for Tasks a and b describing the candidate's performance in annotating the given program and writing the working programs.

If work is a re-sit, please tick		Session and Year of previous submission	January/June	2	0		Please tick to indicate this work has been standardised internally	

A(i).1 Criteria (0 - 1 - 2 marks)	Comment	Page
• The candidate uses ICT tools to annotate the given program listing to identify some techniques;		
A(i).2 Criteria (3 - 4 - 5 marks)		
• The candidate uses ICT tools to annotate the given program listing to identify a range of techniques – at least **one** example each of program constructs, storage and manipulation of data and modularity;		
A(i).3 Criteria (6 - 7 marks)		**Mark** (Max 7)
• The candidate uses ICT tools to annotate the program listing to clearly identify all appropriate techniques – constructs, storage and manipulation of data, modularity, readability and maintainability**.**		

A(ii).1 Criteria (0 - 1 - 2 marks)	Comment	Page
• The candidate applies their knowledge of ICT tools and techniques by using correct techniques to annotate the given program listing to describe how selection, repetition and data manipulation have been used;		
A(ii).2 Criteria (3 - 4 marks)		
• The candidate applies their knowledge of ICT tools and techniques by correctly annotating the given program listing to explain program constructs, data manipulation and the use of subroutines;		
A(ii).3 Criteria (5 - 6 marks)		**Mark** (Max 6)
• The candidate applies their knowledge of ICT tools and techniques by correctly annotating the given program listing to fully explain all program constructs, storage and manipulation of data and modularity.		

B(i).1 Criteria (0 - 1 - 2- 3 marks)	Comment	Page
• The candidate uses ICT tools to produce programs with annotated program listings; • the candidate demonstrates use of a limited range of techniques;		
B(i).2 Criteria (4 - 5 - 6 marks)		
• The candidate uses ICT tools to produce programs with annotated program listings; • the candidate demonstrates use of a range of techniques;		
B(i).3 Criteria (7 - 8 marks)		**Mark** (Max 8)
• The candidate uses ICT tools to produce programs with annotated program listings; • the candidate demonstrates the use of all techniques – constructs, storage and manipulation of data, modularity, readability and maintainability.		

B(ii).1 Criteria (0 - 1 - 2 - 3 marks)	Comment	Page
• The candidate demonstrates an understanding of components and functions of programming languages by annotating the program listings to identify the language they have used and where they have used selection, repetition and data manipulation;		
B(ii).2 Criteria (4 - 5 marks)		
• The candidate **also** annotates their program listings to identify the type of language used and where they have used data storage and subroutines;		
B(ii).3 Criteria (6 - 7 marks)		**Mark** (Max 7)
• The candidate annotates their program listings fully and clearly to **also** describe the purpose of the language used and the use of local and global variables.		
B(iii).1 Criteria (0 - 1 - 2 - 3 marks)	**Comment**	**Page**
• The candidate applies their knowledge of ICT tools and techniques to produce a set of working programs to meet the given designs;		
B(iii).2 Criteria (4 - 5 - 6 marks)		
• The candidate produces effective working solutions to the given designs by making appropriate use of the features of the language used;		
B(iii).3 Criteria (7 - 8 - 9 marks)		**Mark** (Max 9)
• The candidate produces effective and efficient solutions to the given designs with appropriate use of techniques for improving readability and maintainability.		
C(i).1 Criteria (0 - 1 - 2 marks)	**Comment**	**Page**
• The candidate describes the type and purpose of a limited range of programming languages;		
C(i).2 Criteria (3 - 4 marks)		
• The candidate describes the type and purpose of a range of programming languages;		
C(i).3 Criteria (5 - 6 marks)		**Mark** (Max 6)
• The candidate describes a wide range of programming languages fully explaining the type and purpose of each.		
C(ii).1 Criteria (0 - 1 - 2 marks)	**Comment**	**Page**
• The candidate comments on the effectiveness of solutions by identifying the features of the chosen languages that make them suitable for the given program designs and listings; • the candidate comments on their actions and role in solving problems in order to complete tasks a and b;		
C(ii).2 Criteria (3 - 4 marks)		
• The candidate identifies the features of the chosen languages that make them suitable for the given program designs and listings; • the candidate identifies strengths and weaknesses in their initial solutions and refines them in relation to the user's needs by suggesting at least **one** improvement to each of the programs; • the candidate includes an analysis of their experiences while annotating and writing programs in order to improve their performance;		
C(ii).3 Criteria (5 - 6 - 7 marks)		**Mark** (Max 7)
• The candidate identifies the features of the chosen languages that make them suitable for the given program designs and listings; • the candidate identifies strengths and weaknesses in their initial solutions and refines them in relation to the user's needs by suggesting improvements to **each** of the programs giving a valid reason for each suggested improvement; • the candidate includes an analysis of their experiences while annotating and writing programs, suggesting how they might approach a similar task in the future.		

Please note: This form may be updated on an annual basis. The current version of this form will be available on the OCR website (www.ocr.org.uk).

MARK TOTAL

Guidance on Completion of this Form

1 **One** form should be used for each candidate.
2 Please ensure that the appropriate boxes at the top of the form are completed.
3 Please enter *specific* page numbers where evidence can be found in the portfolio, and where possible, indicate to which part of the text in the mark band the evidence relates.
4 Enter the mark awarded for each strand of the marking criteria in the appropriate box and also enter the final mark in the total column.
5 Add the marks for the strands together to give a total out of 50. Enter this total in the relevant box.

URS770 Revised September 2014   **URS/G047**

Oxford Cambridge and RSA Examinations

Extra Comment (please indicate to which Criteria comments refer)