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| **COURSE NAME / CODE** | | | BTEC National Subsidiary / Diploma / Extended Diploma in IT | | | | | |
| **UNIT(s) No / Name** | | | Unit 14 – Event driven programming | | | | | |
| **LEVEL** | 3 | Assignment No & Title | Assignment 1/How to Start | | | | | |
| **LECTURER/ASSESSOR** | | | | Emmanuel Oladipo/ | | | | |
| **ISSUE DATE** | | | | 15/03/2017 | **DEADLINE DATE** | | 30/03/2017 | |
| **SUBMISSION DATE** | | | |  | |  | | |
| **RESUBMISSION AUTHORISATION**  BY LEAD INTERNAL VERIFIER\* | | | |  | | **Authorisation Date (By iv)** | |  |
| **RESUBMISSION DATE\*\*** | | | |  | |  | | |

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| * all resubmissions must be authorised by the **Lead Internal Verifier**. Only **one** resubmission is possible per assignment, providing: * The learner has met the initial deadlines set in the assignment, or has met an agreed deadline extension * The tutor considers that the learner will be able to provide improved evidence without further guidance * Evidence submitted for assessment has been authenticated and accompanied by a signed and dated declaration of authenticity by the learner   \*\*Any resubmission evidence **must** be submitted within 10 working days of receipt of assessment |

**Student declaration**

*I declare that this assignment is all my own work and the sources of information and material I have used (including the internet) have been fully identified and properly acknowledged as required.*

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| **STUDENT NAME** | **SIGNATURE** |
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**ASSESSMENT DETAILS & GRADING CRITERIA**

(NB: Columns 1 &2 of the table below will be completed once the assignment has been submitted) Please note that criteria & evidence should be aimed to give the learner the maximum grade available within their qualification (i.e. A, Pass, Distinction)

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| **STUDENT NAME** | **SIGNATURE** |
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**ASSESSMENT DETAILS & GRADING CRITERIA**

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| |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Learning Aims Covered** | |  | | |  | | | |  | | LO1 and LO2 | | Be able to explain the features of event driven programming.  Be able to use the tools and techniques of an event driven language. | | |  | | | |  | | **GRADING CRITERIA FOR TASK** | | **EVIDENCE** | **1) EVIDENCE SEEN** | | Page No# | **2) CRITERIA MET** | | |  | | **Y** | **N** | **Y** | **I** | **N** | **IV** | | | P1 | Explain the key features of event driven programs | Task 1. A Microsoft word **Report** containing **all** of the items in the p1 checklist |  |  |  |  |  |  |  | | | P2 | demonstrate the use of event driven tools and techniques | Screen shots of demo of at least **5** items specified in p2 checklist |  |  |  |  |  |  |  | | | M1 | Discuss how an operating system can be viewed as an event driven application | **A** Microsoft word **Report** on event driven **OS** to contain all items in M1 checklist |  |  |  |  |  |  |  | | | D1 | evaluate the suitability of event driven programs for non-graphical applications | **A** Microsoft word **Report** to contain at least 3 pros and 1 cons in the specified D1 checklist |  |  |  |  |  |  |  | |     **KEY: Y = Yes, I = Incomplete, N = No**  **BREAKDOWN OF HOW GRADES WILL BE AWARDED:**   |  |  |  | | --- | --- | --- | | (NB: Please tick as appropriate) **TYPE OF QUALIFICATION** | **TICK** | **DESCRIPTION** | | **BTECS / WORKSKILLS** | **√** | Pass / Merit / Distinction / Fail | | | | |
| **Scenario** | You are working as a junior programmer for an electronic games maker company. Your managers have asked you to write a short guide to the basics of event driven programming and to demonstrate some of the techniques. | | |
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| **Task 1** | **Features of event driven programming**  Prepare a presentation (up to 10 slides) which   1. Define what is meant by event driven programming 2. Give examples of event driven systems 3. Give examples of programming languages used to create event driven programs   4. Explain the features of event driven programming | | |
| **Evidence you must produce for this task** | * Power point presentation / Word document | | |
| **Criteria covered by this task:P1** | | | |
| **To achieve the criteria you must show that you are able to:** | | **Unit** | **Criterion reference** |
| 1. Define event driven programming | | 14 | P1 |
| 1. Explain the features of event driven programming Languages | | 14 | P1 |
| 1. Give examples of event driven systems | | 14 | P1 |

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| **Task 2** | You have been asked to demonstrate the use of event driven tools and techniques in an induction training to educate new apprentice candidates by your Manager. You are to create a demonstration guide to help them use event driven tools and techniques. | | |
| **Evidence you must produce for this task** | * Word document /User guide | | |
| **Criteria covered by this task: P2** | | | |
| **To achieve the criteria you must show that you are able to:** | | **Unit** | **Criterion reference** |
| Demonstrate how to apply Tools and techniques: e.g. use of tool boxes and controls, selection, loops, event handlers, triggers, objects and object properties, menus; debugging tools | | 14 | P2 |
| Demonstrate how to apply Variables: declaring variables; scope of variables; constants; data types | | 14 | P2 |

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| **Task 3** | * You have also been told to include a tutorial documentation on the role of event driven programming on operating systems in your training pack. You are to give a training manual on the role played by event driven programming on operating systems. | | |
| **Evidence you must produce for this task** | * Power point presentation / Word document/Screenshot of operating system clickable items. | | |
| **Criteria covered by this task:** | | | |
| **To achieve the criteria you must show that you are able to:** | | **Unit** | **Criterion reference** |
| Give examples of event driven operating system with reference to GUI, icons etc. | | 14 | M1 |
| Discuss how an operating system can be viewed as an event driven application | | 14 | M1 |

**KEY: Y = Yes, I = Incomplete, N = No**

**BREAKDOWN OF HOW GRADES WILL BE AWARDED:**

(NB: Please tick as appropriate)

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| **TYPE OF QUALIFICATION** | **TICK** | **DESCRIPTION** |
| **BTECS / WORKSKILLS** | **√** | Pass / Merit / Distinction / Fail |
| **A LEVELS / A2** |  | A-U |

**Internal Verification of Assignment Brief**

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| **IV Full Name** |  | **Sign** |  | **Date:** |  |
| **LIV Full Name** |  | **Sign** |  | **Date:** |  |



**BTEC Sample Material**

**Learner Consent Declaration**

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| **Centre No & Name** | **51330 – UTC Reading** | |
| **Subject & Level** | **BTEC National Subsidiary / Diploma / Extended Diploma in IT** | **3** |
| **Unit No & Title** | **Unit 14 – Event driven Programming** | |
| **Learner No & Name** |  | |

I agree to the learner work identified above, after having been made anonymous, being used to support any of the following activities, which may involve the display of work online through the BTEC website or through publications:

* Professional Development and Training
* Centre Assessment Example Material
* Standardisation Support
* Publication Materials

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| **Assessor Signature** |  |
| **Name** (block capitals please) |  |
| **Job Title** |  |
| **Date**: |  |

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| **Learner Signature** |  |
| **Name** (block capitals please) |  |
| **Parent/Guardian consent if under 16 years of age** |  |
| **Date**: |  |

Please ensure that this sheet is completed on submission of your assignment.

Please note that your assignment **MUST** have the following (unless otherwise stated):

1. Cover page
2. Contents page
3. Introduction
4. Conclusion

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| P6P  P1  Ms Word Report | P2  Ms Word Report | M1  Ms Word Report/ Power point | D1  Ms Word Report/ Power point  Examples of non-graphical event driven applications |
| Service Oriented    Time driven  Event Handler    Trigger functions    Events    Event loops  Flexibility  Suitability for GUI  Simplicity of Programming  Ease of development | Triggers  Key press    Alarm  Loops  Touch screen Events  System event  Mouse click  Tool box and controls  Selection and Loops  Debugging tools  Menus  Variables and constants  Data types and arrays | Event driven OS examples with justification    Advantages of event driven OS    Disadvantages of event driven OS | Evaluation of non-  The pros and cons of non-graphical event driven applications |

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| **Sources of information** | **Textbooks**   * Balena F – Programming Microsoft Visual Basic 6 (Microsoft Press US, 1999) ISBN-10: 0735605580, ISBN-13: 978-0735605589 * Bond M, Law D, Longshaw A, Haywood D and Roxburgh P – Sams Teach Yourself J2EE in 21 Days, 2nd Edition (Sams, 2004) ISBN-10: 0672325586, ISBN-13: 978-0672325588 * Palmer G – Java Event Handling (Prentice Hall, 2001) ISBN-10: 0130418021, ISBN-13: 978-0130418029 * Longshaw J and Sharp J – Visual J#.NET Core Reference (Microsoft Press US, 2002) ISBN-10: 0735615500, ISBN-13: 978-0735615502 * Suddeth J – Programming with Visual Studio.NET 2005 (Lulu.com, 2006) ISBN-10: 1411664477, ISBN-13: 978-1411664470 * Troelsen A – Pro C# 2005 and the.NET 2.0 Platform, 3rd Edition (Apress US, 2004) ISBN-10: 1590594193, ISBN-13: 978-1590594193   **Websites**   * eventdrivenpgm.sourceforge.net * [www.vbexplorer.com/VBExplorer/VBExplorer.asp](http://www.vbexplorer.com/VBExplorer/VBExplorer.asp) * www.vbwm.com |

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| **SUMMATIVE ASSESSMENT RECORD SHEET** | | | | | | |
| **Programme** | BTEC National Subsidiary / Diploma / Extended Diploma in IT | | **Learner Name** |  | **Assessor Name** | Emmanuel Oladipo |
| **Unit No. & Title** | **14/Event driven programming** | | **Target Learning Aims** | Be able to explain the features of event driven programming.  Be able to use the tools and techniques of an event driven language. | **Issue Date** | Click here to enter a date. |
| **Assignment No & Title** | **1/How to Start** | | | | **Final Submission Date** | Click here to enter a date. |
| **Target criteria** | **Criteria Achieved** | **Final Assessment Comments** | | | | |
| P1 |  |  | | | | |
| P2 |  |  | | | | |
| M1 |  |  | | | | |
| D1 |  |  | | | | |

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| **Summative comments** | | | |
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| **Assessors declaration** | | | |
| I certify that the evidence submitted for this assignment is the student's own and the learner will be able to provide improved evidence without guidance. I understand that any false declaration is a form of malpractice. | | | |
| **Resubmission authorisation\*** |  | **Resubmission Date:** | Click here to enter a date. |
| \* All resubmissions must be authorised. Only 1 resubmission is possible per assignment. | | | |
| **Assessor Signature** |  | **Date:** |  |
| **Learner comments** |  | | |
| **Learner Signature** |  | **Date:** |  |