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| **Subject Information** | | | | | | | | | | | |
| **Course** | | UEE60411 Advanced Diploma of Computer Systems Engineering | | | | | | | | | |
| **Unit[s] of Competency** (If cluster list all units in cluster) | | UEENEED103A Evaluate and modify object oriented code programs | | | | | | | | | |
|  | | NA | | | | | | | | | |
|  | | NA | | | | | | | | | |
| **Assessment Information for Student** | | | | | | | | | | | |
| **Name of task** | | **AT4 Knowledge Questions** | | | | | | | | | |
| **Type of task** | Short answer questions | | | | | **Task Number** | | | 4 | of | 4 |
| **Where assessment will take place** | The Gordon, in class | | | **Due date** | | | | 26/06/2020 | | | |
| **Time you will be given to complete this assessment** | | 4 Hours | | | **Number of questions to be answered** | | 5 | | | | |
| **What you are required to do** | | | For this assessment you are required to answer all questions correctly to achieve a result of Satisfactory, which will contribute to the overall Competent outcome for this unit | | | | | | | | |
| **What Knowledge you need to demonstrate** | | * object-oriented programming language elements * object-oriented programming language operators and control structure * relevant manufacturer specifications | | | | | | | | | |
| **Your assessor will provide these resources** | | Computer Access | | | | | | | | | |
| **You (the student) will need to provide these resources** | | Nil | | | | | | | | | |
| **Before you start this task** | | Using a blue or black pen please complete the *Student Information* section on the Questioning Assessment Coversheet at the back of this assessment. Please write your full name (both first and last name), student identification number, date and sign the sheet.  Note: If questions are on Gordon online, your login is deemed as understanding and acceptance of the student rights and responsibilities and you do not need to complete the form. | | | | | | | | | |
| **To submit this task** | | Your assessment must be submitted with the completed Questioning Assessment Coversheet at the back of this assessment. You must submit this completed task via the method instructed by your assessor. | | | | | | | | | |

| **Assessment Questions** | | **Satisfactory** | |
| --- | --- | --- | --- |
| **Yes** | **No** |
| **1** | List 5 key object oriented programming elements used in Python and explain what they do |  |  |
|  | Class – contains a blueprint for an object, contains all details about the object  Object – is a class variable  Methods – is a function inside a class  Attributes – data inside of a class, such as variables  Inheritance – modifying the parent class with changed attributes or methods |  |  |
| **2** | Show how a Python language operator can be used in an if statement |  |  |
|  | age = int(input(“Enter age: “)) #this is asking for the user to enter their age as an integer  if age >= 18: #this is checking if the entered age is equal to or greater than 18  print(“Adult”) #this is outputting “adult” if the above statement is true  else: #this is what will happen if the previous statement is not true  print(“Minor”) #this is outputting “minor” if the previous statement is not true |  |  |
| **3** | List 5 most commonly used Python control structures and explain what they do |  |  |
|  | 1. sequential – default mode of python, follows instructions in order 2. selection – used for decision making and follows a branch structure 3. repetition – used for repetition, follows a piece of code multiple times to determine an outcome 4. simple if statements – checks if a statement is true or false and only runs if the condition is met 5. elif statements – checks if a statement is true and branches to a new statement that checks that statement also. |  |  |
| **4** | Where would you find up to date specifications of the python programming language |  |  |
|  | Most up to-date information on python would be found on the documentation from the python website or the Python interpreter in whatever program you use to run python from (Visual Studio Code) |  |  |
| **5** | List at least 4 most commonly used Python operators and explain what they do |  |  |
|  | 1. if – checks if a statement is true or false 2. while – repeats an action in a loop and checks if the action is true 3. for – repeats an action for a specified amount of time 4. break – breaks out of the current section of the loop |  |  |

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| **Questioning Assessment Coversheet**  **Student Information** | | | | | | | | | | | | | | | | | |
| **Student’s Name** | | Jack Robins | | | **Student ID No.** | | | 1 | 3 | | 2 | 1 | | 5 | 3 | 9 | 1 |
| **Student rights** | | If you have any questions about the assessment outcome you should firstly speak to your trainer. If this conversation does not resolve your concern, you can appeal the decision within ten working days of the date below by sending an email to **qualityassurance@gordontafe.edu.au** | | | | | | | | | | | | | | | |
| **Student declaration** | I certify that the work completed and submitted for these assessment tasks is my own work and that where other people’s work or contribution is part of this assessment, it has been clearly identified in the assessment and that person’s role or source of the information has been acknowledged. | | | | | | | | | | | | | | | | |
| **Student’s Signature** | | Jack Robins | | | **Date** | | | 24/06/2021 | | | | | | | | | |
| **Assessment Outcome (Assessor use only)** | | | | | | | | | | | | | | | | | |
| **Attempt Number** | | First submission | | Second submission | | | Late submission | | | | | | | | | | |
| **Reasonable adjustment applied** | | Not required   Yes (briefly describe) | | | | | | | | | | | | | | | |
| **Outcome** | | Satisfactory | | Unsatisfactory | | | | | | | | | | | | | |
| **Feedback** | |  | | | | | | | | | | | | | | | |
| **Assessor’s Name** | | S.Gale | **Signature** | | |  | | | | **Date** | | |  | | | | |