 Province of the

EASTERN CAPE

EDUCATION

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)**

**HOME SCHOOLING SELF-STUDY WORKSHEET**

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| **SUBJECT** | INFORMATION TECHNOLOGY PRACTICAL | **GRADE** | 10 | **DATE** | 4 May to 8 May 2020 |
| **TOPIC** | Decision Making – Validating Data | **TERM 1****REVISION** | (Please tick) | **TERM 2 CONTENT** | ✓ |
| **TIME ALLOCATION** | 1hr | **TIPS TO KEEP HEALTHY**1. **WASH YOUR HANDS** thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.2. **PRACTISE SOCIAL DISTANCING** – keep a distance of 1m away from other people.3. **PRACTISE GOOD RESPIRATORY HYGIENE**: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.4. **TRY NOT TO TOUCH YOUR FACE.** The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick. 5. **STAY AT HOME.**  |
| **INSTRUCTIONS** | Resources used// Most of this week’s work is taken from the New DBE practical book chapter 6* Information Technology Practical Book Grade 10 , DBE
* Past Exam Papers

Answer all questions |
|  | Your friend is a young graphic designer who has designed the following user interface for your application, called GymRegistration. Design the following interface in Delphi.a. Use this design as a basis to create a Delphi sign-up form that asks the user’s name, surname, gender, birthdate, ID, email, cellphone number, residential address, weight, and length.b. Create an IPO chart for this application. In the Input section, describe five useful input validation techniques that can be added to the form. In the Processing section, describe how you would implement each of these input validation techniques. Finally, in the Output section, list the error messages that you would give to the user if the input validation is not successful.c. Implement the input validation techniques in your application to prevent invalid inputs. |