 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** | 11 May to 15 May 2020 |
| **TOPIC** | Revision – Basics of Delphi | **TERM 1****REVISION** | (Please tick) | **TERM 2 CONTENT** | ✓ |
| **TIME ALLOCATION** | 2hr | **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 |
|  | Numeric input from an edit* Input is always captured in the TEXT property as a string data type.
* Numeric input added to the EDIT needs to be converted into a numeric data type.
* StrToInt function converts a String to an Integer value and assigns the integer value to the integer property of the output, e.g. Calender1.Day := StrToInt (edtDay.text);

Built-in Function Numeric

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| --- | --- | --- |
| Function | Description | Example and data type |
| Trunc | Truncates the decimal part of a real number | Trunc(8.97) = 8 | Integer |
| Round | Rounds off a number to the nearest integer | Round(8.97) = 9 | Integer |
| Frac | To find the decimal part of the real number | Frac(74.89) = 0.89 | Real |
| Sqr | Finds the square root of a positive number | Sqr(4.5) = 20.25Sqr(4) = 16 | RealInteger |
| Sqrt | Calculates the square root of a positive number | Sqrt(12.3) = 3.5Sqrt(25) = 5.0 | RealReal |

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| **Function name** | **Definition** | **Examples** |
| Copy(string, start, length) | Returns a sting of given length for the specified string, beginning at the start character position: if length is greater than the number of characters from start onward, the next returned continues to the end of the string | Copy('South',2,3) returns 'out' |
| Length(string) | Returns the length of the string | Length ('South') is 5 |
| TrimLeft(string) | Removes the leading spaces from string | TrimLeft(' South') is 'South' |
| TrimRight(string) | Removes the trailing spaces from string | TrimRight('South ') is 'South' |
| Trim(string) | Removes spaces at both ends of the string | Trim(' South ') is 'South' |
| StringOfChar(character, length) | Creates a string of the specified character for the given length | StringOfChar('S',5) returns 'SSSSS' |
| UpperCase(string) | Converts the string to capitals | UpperCase('South') returns 'SOUTH' |
| LowerCase(string) | Converts the string to lower case | LowerCase('South') returns 'south' |
| Pos(search, main) | Searches for the first occurrence of the search string in the main string | Pos('o', 'South') is 2 |

Create the following GUI and save it as Activity 2. Each button explains what needs to be done.Flowcharts |