

Software Design & Development – Revision Questions 2: Answers

1a	WHILE choice < "A" OR choice > "F"
1b	Conditional Loop
2a	The condition at line 6 would be evaluated as FALSE So the loop would terminate And at line 9 the Signal would be sent to the alert system
2b	Real <i>It must store a decimal value (103.5) so it has to be a real number.</i>
3	total = 0 FOR index = 1 TO 7 RECEIVE rain_day FROM KEYBOARD total = total + rain_day NEXT index average = total / 7 <i>Running total must be used inside the fixed loop. Average is calculated by dividing total by 7</i>
4	Input – Age Process – Calculate Ticket Price Output – Ticket Price
5	UNTIL cracked = TRUE <i>Boolean variable cracked is set to TRUE when the code is correct so the loop only has to repeat until cracked is set to TRUE</i>
6a	Boolean
6b	Line 26 to Line 31 uses a conditional loop (Iteration) Line 27 to Line 29 uses an IF statement (Selection)
7a	Flow Chart Structure Diagram
7b	Green10KA19
7c	DO RECEIVE postcode FROM KEYBOARD IF LEN(postcode) <> 4 THEN SEND "Error message" TO DISPLAY END IF REPEAT UNTIL LEN(postcode) =4 <i>Use the LENGTH function here to check that the number of characters in the surname is equal to 4</i>