

Selection, Iteration, Files and Arrays Worksheet

1. Use the **switch statement** to write a program which reads an integer value representing the day of the week (1 = Sunday, 2=Monday... 7=Saturday). The program should print the day of the week. An error message should be printed if an integer outside of the range 1 to 7 is entered.

2. (a) What is printed by the following algorithm?

SUM = 0

N=20

While N < 30 DO

 SUM = SUM + N

 PRINT N, SUM

 N = N + 3

END WHILE .

3. (b) Draw the flowchart for the algorithm in 1 (a) above.

2. Write a program to read the runs made by batsmen over a period of time. The value 999 indicates the end of data. Determine and print the following:

(a) the average score and (b) the number of batsmen with a score above 50.

4. Write a program to read test scores from a file called marks.txt. The program should determine the highest score. The highest score should be written to a file called highscore.txt.

5. Write a program to store the weights of 10 boxes into an array called weight. A box is considered to be overweight if it weighs more than 60. Determine and print to the screen the number of boxes which are overweight.

6. Exam paper # 3 from the year 2010