COMPUTER PROGRAMMING CAT 2

a) What is program documentation and enumerate four advantages associated with it . [4marks]

b) Write a program in java to demonstrate the use of switch statements. [4 marks]

c) Explain how throw and catch are used in exceptional handling . [4 marks]

d) Explain the following four fundamental principles of object oriented programming . [8marks]

   i. Abstraction

   ii. Inheritance

   iii. Encapsulation

   iv. 2 Class and object

e) Using a block diagram explain the following control structures in C programming

   i. Sequence logic structure

   ii. Decision logic structure

   iii. Loop structure   [6 marks]

f) Explain the structure of C programing language [2 marks]

g) Explain any four characteristics of an algorithm [2 marks]