

King Saud University College of Computer and Information Sciences Computer Science Department	
CSC 111 Introduction to Programming with Java	First Semester 1441-1442

Tutorial #1

Problem Solving

Q1) Analyze and design a program that acts as a blood pressure monitor. Your program will take the patient pressure and show if he has high/low/average blood pressure based on the below table.

	Low	Average	High
Blood pressure	Less than or equal 121	Between 122 and 146	Greater than or equal 147

1. Analyze the problem by showing the (inputs, outputs, and the process).
2. Design the problem using algorithm.

Q2) Analyze and design a program that calculates the sale price that a customer would pay for buying book from a bookstore. The bookstore makes an offer to the customers as follows: If the customer buys book with price greater than 100 , he gets 10% discounts. If he buys book with price greater than 160, he gets 20% discount. Your program will calculate and display the sale price that a customer should pay.

1. Analyze the problem by showing the (inputs, outputs, and the process).
2. Design the problem using flowchart.