Module 14

Summary

1. CASE is an acronym for Computer Assisted Software Engineering
2. CASE tools are readymade computer programe, which assist a system analyst and applications programmer to increase his/her productivity tools
3. Besides improving productivity thus also provide better interaction among members of a system development team.
4. CASE tools allow tracking of progress of projects.
5. They also aid in assessing cost and time needed to effect changes in a system.
6. There are both commercial and open domain tools to assist in all phases of a system analysis and design life cycle.
7. Commercial tools are expensive. They however have better user interfaces and customer support.
8. For object oriented systems analysis and design Universal Modelling Language (UML) is the correct standard.
9. A tool for Object oriented analysis using UML is marketed by a company named Rational Rose and is the most popular tool set used by industry.
10. In the notes we have given the URL's of a number of open domain tools, which can be tried by students.

References:

1. J.A.Hoffer, J.F.George and J.S.Valacich "Modern Systems Analysis and Design", Pearson Education Asia,New Delhi,2002
   Chapter 4 "Automated Tools for Systems Development" has a good discussion of CASE tools.

2. G.Booch, J.Rumbaugh, I.Jacobson; "The Unified Modelling Language User Guide", Addison Wesley, Reading, MA, USA, KGG authentic Introduction to Rational Commercial tools for Object oriented modelling

3. URL's of various available CASE tools

   (a) System flowchart and Er-diagram generation tool: Smartdraw
       http://www.smartdraw.com

   (b) Data flow diagram tool: IBMS/DFD
       http://viu.eng.rpi.edu

   (c) Tool to convert decision table to structured english: COPE
       http://www.cs.adelaide.edeu.au/users/dwyer/examples.html

   (d) System Requirements Specification documentation tool: ARM
       http://sw-assurance.gsfc.nasa.gov/disciplines/quality/index.php

   (e) A tool for screen design and data inputting: Visual Basic
       http://www.microsoft.com/downloads/details.aspx?FamilyID=bf9a24f9-b5c5-48f4-8edd-cdf2d29a79d5&displaylang=en

   (f) A tool for creation, manipulation and checking of decision tables:Prologa v.5
       http://www.econ.kuleuven.ac.be/prologa