

MANUAL for: Automatic platform for evaluation - APE

Sandeep Chakraborty^{1,2},

1. Department of Biological Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, India.

2. Plant Sciences Department, University of California, Davis, CA 95616.

Installation

1. You have to use the tcsh shell (bash shell wont work).
2. You have to install the cpan perl packages from <http://www.cpan.org/>. The list depends on the program you use, just run the main program - and it will prompt you about the missing packages. Go ahead and install those.
3. You need to set some environment variables (SRC, BIOPERLHOME, etc). The complete list is in a file called "setup.csh" - you need to change this file and source it. This changes the \$path variable too.

Utility to generate skeletal code

We provide a Utility script to generate the basic code for adding a question:

1. \$SRC/QP/genQtemplate.pl -in template -out sourcecode

The template file contains a # seperate list of fields. For example,

MOMENTUM4 #A \$M1 kg rifle fires a \$M2g bullet at a velocity of \$Vm/s find the recoil velocity of the rifle?# \$a # Use the conservation of momentum concept # WA1 #WA2 # Physics # 9

Running the question generator

1. \$SRC/QP/genqpapers.pl -in qp.config -mult 3

The config file "qp.config" has the questions which are to be generated. The question name actually corresponds to the name of the perl function. One entry in qp.config looks like: **SQUAREROOTIRRATIONAL 9 MATHS**

This writes the question/answer database in a file "DB". One entry in DB looks like:
myArray[1]=" 42 / 3 = ?#14#19 #14 #4 #1#See if there are common factors#DIV#6#MATHS#"
;

The "mult" option is used for generating multiple copies of the questions specified in the config file.

Visualizing the quesions

Include the file "DB" in the file qpgen.html

1. firefox qpgen.html

The \$SRC/QP/genqpapers.pl program also generates two files - QP and AP - which contains the latex code, for generating printed question answer sheets.