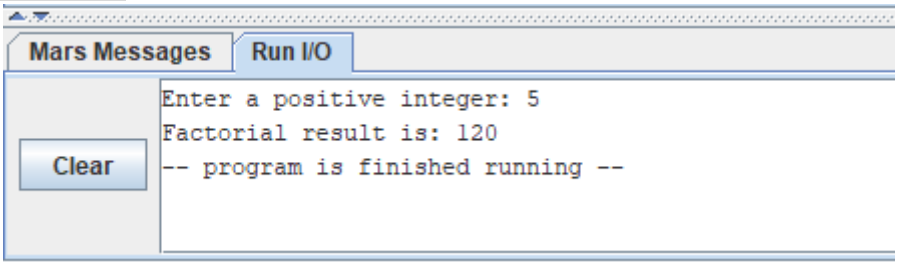
Lab06: Integer Multiplication and Division

Note: You need to follow the printing style in the sample runs.

Task(s):

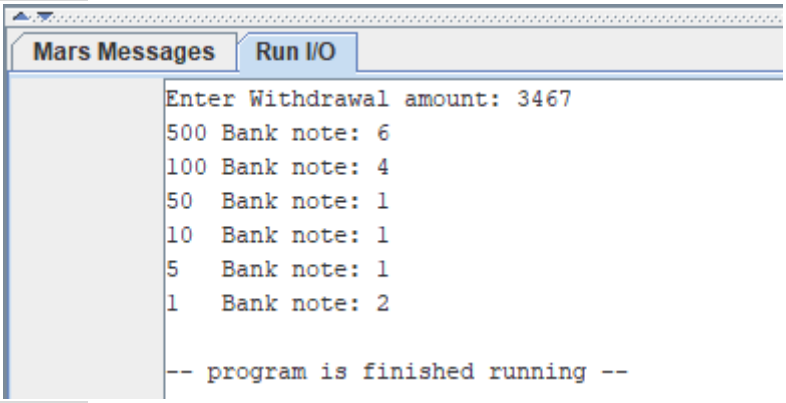
1. Factorial Calculation: Using the **mul** instruction, write a MIPS program that **computes** the factorial of a number **n** input by the user, and **display** the result on the screen. **Run** your code and **record** the maximum 32-bit factorial value that can be computed without errors.

   SAMPLE RUN:



2. Write a MIPS assembly program that **asks** the user about the total amount of money he wishes to withdraw from the ATM. Then, **calculate** the minimum number of bank notes (500, 100, 50, 10, 5, 1) required for his withdrawal. Finally, **print** out the count of each banknote required. If a bank note is not required (i.e., its count is zero), do not print it out.

   SAMPLE RUN1:



   SAMPLE RUN2: