System Programming

Write a short program for printing the names of the largest 10 file in a directory, sorted from largest to smallest.

**find . | sort –nr | head -10**

Describe a system program that would be easier to implement in bash than in C. Outline said program.

Just about any program that requires the use of system information. If you can just call a linux command to do these things, then why wouldn’t you do so?

Write bash programs that make use of the following features:

* Linux Commands
* Reading user input
* Accessing system information such as date, time, file number, size and name
* Arithmetic comparisons
* If statements
* For $var in list
  + For I in $( ls )
* Output commands
  + For most of these, here’s the following program:
    - echo “Enter username”  
      read u <- *Reading input*  
        
      who | grep $u <- *Linux command / Accessing info*  
        
      if [ $? = 0 ]; then <- *If statement / Comparison / $var in list*  
       echo “$u found” <- *Output*  
      else  
       echo “$u not found”  
      fi

Write a working Bash program that implements a Linux command such as the “ls” command.

I believe this just means that the bash program uses a Linux command in it. In which case, all you have to do is use the Linux command.