Operating Systems Lab:

- · Some basic rules of shell soupt:
- * Always have the shebang at the top of the document, before any instruction.

she bang is given by:

#!/bin/bash

- * Use # for commenting a line. Multiline comments are not allowed, so use # one after other.
- * \$ variable_name will give value of the variable.
- * All the input taken by read command is in string format.
- * strings can be compared directly using == , < , > operators.
- * \${ stoing : position} gives substring from that position to the end of the storing.
- * \${stoing: position: length} gives substring of given length from given position.
- * \${#string} provides the total length of the string.
- * (()) is used for withmetic expressions and in for loop.
- * [[]] is used for comparisons in if statements,

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while loops and until loops.
* Syntax of if else statements
          if [[ condition]]
                statements
          elif [[ condition -2]]
        statements
else
statements
fi
 * for ((condition-1; condition-2; condition 3)) # C-style for loop
    done
 * for variable. in array # Another variation
        statements
* until loop acts similar to a do-while loop.
   until [[ condition ]]
        statements
* while [[condition]]
       statements
  done.
```

* ccho points the output * read takes the input. * declare is used with following flags for declaring - A for array. for integer to convert to lowercase - u to convert to uppercase * switch statement syntax: case \$ { choice } in staments;; *) # default case statements

esac

- · For compiling:

 -lm for math.h header

 -let for shm-open function
 - lotheread for otheread. I header.