CSE / ENGR 142 Programming I

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Loop Development

M1.4

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Example: Print Rainfall Data		
<pre>#include <stdio.h> int main (void) { double rain; /* current rainfall from input */ /* read rainfall amounts and print until sentinel */ scanf("%lf", &rain); while (rain >= 0.0) { printf("%f ", rain); scanf("%lf", &rain); } return 0; }</stdio.h></pre>		
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Schema instance for Rainfall				
<pre>#include <stdio.l &r="" (rain="" (void)="" declarations;="" double="" if",="" initial;="" int="" main="" rain;="" scanf("%="" while="" {="">= 0 process; scanf("%lf", 4; final; return 0; }</stdio.l></pre>)> /* current rainfall */ ain); .0) { &rain);			
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Print Rainfall Data				
declarations:	#include <stdio.h> int main (void) { double rain; /* current rainfall */</stdio.h>			
initial:				
process:	scanf("%lf", &rain); while (rain >= 0.0) {			
final:	scanf("%lf", &rain); }			
4/23/99	return 0; } e 1999UW CSE			







Print Average Daily Rainfall (2)				
declarations:	#include <stdio.h> int main (void) { double rain; /* current rainfall */</stdio.h>			
initial:				
process:	scanf("%lf", &rain); while (rain >= 0.0) {			
final:	<pre>scanf("%If", &rain); }</pre>			
4/23/99	return 0; } o 1990 UV CSE H1-17			



Simple Command Interpreter Read in "commands" and execute them. Input - single characters a -- execute command A by calling process_A() b -- execute command B by calling process_B() q -- quit Pseudocode for main loop: get next command if a, execute command A if b, execute command B if q, signal quit 4/23/99 © 1999 UW CSE

H1-19



