

# CSE 2201 Operating System and Syetm Programming Lab

**Marks:150,Time:1130 Hrs to 1430Hrs,Date:Feb 22, 2022**

Q1	<p>Suppose, we want to create a command ‘me’ and it prints the details about a person. Outputs’ template of command ‘me’:</p> <pre>&gt; Me &gt; &lt; First Name &gt; &lt; Middle Name &gt; &lt; Last Name &gt; &gt; &lt; Email &gt; &gt; &lt; Date &gt;</pre>	(10)																
Q2	<p>In this section, we will create commands replicating popular Windows commands. After creating those custom commands, we will use our own commands instead of Windows commands when needed.</p> <table><tr><th>UNIX Command</th><th>Custom Command</th></tr><tr><td>echo</td><td>p</td></tr><tr><td>cp</td><td>c</td></tr><tr><td>mv</td><td>x</td></tr><tr><td>help</td><td>man</td></tr><tr><td>find</td><td>f</td></tr><tr><td>type</td><td>cat</td></tr><tr><td>dir</td><td>ls</td></tr></table>	UNIX Command	Custom Command	echo	p	cp	c	mv	x	help	man	find	f	type	cat	dir	ls	(25)
UNIX Command	Custom Command																	
echo	p																	
cp	c																	
mv	x																	
help	man																	
find	f																	
type	cat																	
dir	ls																	
Q3	<p>In this section, we will create a command line calculator</p> <p>The command schema for calculator is:</p> <pre>&lt; operator &gt; &lt; operand1 &gt; &lt; operand2 &gt;</pre> <p>The execution for the batch file is:</p> <pre>&gt;add 2 5 7 &gt;sub 6 2 4 &gt;pow 5 2 25</pre>	(15)																
Q4	<p>In this section, we will create a command line converter</p> <p>The conversions are: inch to cm, dollar to tk, celcius to farenheit, kilogram to pound</p> <p>The command schema for converter is:</p> <pre>&lt; target metric&gt; &lt; source mertic value&gt;</pre> <p>The execution for the batch file is:</p>	(25)																

	<pre> &gt;inch 2.54 1 inch &gt;cm 1 2.54 cm &gt;kg 1 0.475 kg &gt;tk 1 84 tk &gt;cel 100 37.9 cel &gt;far 100 38.8 far </pre>	
Q5	<p>In this section, we will create a command line Age Calculatr The command schema for converter is:</p> <pre>age &lt; birth date &gt; [target date]</pre> <p>The execution for the batch file is:</p> <pre> &gt;age 2000/01/01 2022/01/01 22 years 0 months 0 days &gt;age 2000/01/01 22 years 1 months 21 days </pre>	(20)
Q6	We will make a batch file to go to our favorite folder in Windows Explorer	(15)
Q7	<p>Here, we will create a batch file to hide/unhide a folder. The command schema for this is:</p> <pre>hide &lt; option &gt; &lt; target file&gt;</pre> <p>The execution for the batch file is:</p> <pre> &gt;hide + file.txt file.txt is made hidden &gt;hide - file.txt file.txt is made visiable </pre>	(15)
Q8	<p>Create a command 'pb' to look up a person, add a person and remove a person from a 'phonebook' file. Suppose the 'phonebook' file is:</p> <pre> Alice 1773425 Bob 94534 John 75493 Doe 5356 </pre> <p>Command schema of 'pb' is like</p> <pre>pb &lt; method &gt; &lt; person &gt; [ phone ] &lt; phonebook &gt;</pre> <p>&lt; method &gt; is one of three ('lu', 'add' and 'sub') commands whose represent look up a person, add a person and remove a person respectively. &lt; person &gt; is name of a person. [phone] is mandatory for 'add' and 'remove'. Now write program 'pb' to provide above mentioned facilities. Hint: To search for a person it will be like below:</p> <pre> &gt;pb lu ' Alice ' phonebook.txt Alice 1773425 </pre>	(25)