MIT WORLD PEACE UNIVERSITY

Operating Systems Second Year B. Tech, Semester 3

CALCULATOR USING BASH SCRIPTING

ASSIGNMENT 2 PRACTICAL REPORT

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1 Code

```
1 #!bin/bash
3 echo "Welcome to Super Bashing Calculator"
5 what_to_do=0
vhile [ $what_to_do -ne 5 ]
10 echo "Enter the first number"
11 read var1
12 echo "Enter the second number"
14 echo "What would you like to do with these 2 numbers"
15 echo "1. Addition"
16 echo "2. Subtraction"
17 echo "3. Multiplication"
18 echo "4. Division"
echo "5. Quit"
20 read what_to_do
21 case $what_to_do in
23 1) echo "$var1 + $var2 =" 'expr $var1 \+ $var2';;
24 2) echo "$var1 - $var2 =" 'expr $var1 \- $var2';;
25 3) echo "$var1 * $var2 =" 'expr $var1 \* $var1';;
26 4) echo "$var1 / $var2 =" 'expr $var1 / $var2';;
27 5) echo "Thank you";;
28 *) echo "Try again!";;
30 esac
31
32 done
```

Listing 1: Assignment 8

2 Input and Output

```
1 Welcome to Super Bashing Calculator
2 Enter the first number
4 Enter the second number
5 2
6 What would you like to do with these 2 numbers
7 1. Addition
8 2. Subtraction
9 3. Multiplication
10 4. Division
11 5. Quit
12 1
13 1 + 2 = 3
14 Enter the first number
16 Enter the second number
18 What would you like to do with these 2 numbers
19 1. Addition
```

```
20 2. Subtraction
21 3. Multiplication
22 4. Division
23 5. Quit
25 2 - 1 = 1
26 Enter the first number
28 Enter the second number
30 What would you like to do with these 2 numbers
31 1. Addition
32 2. Subtraction
33 3. Multiplication
34 4. Division
35 5. Quit
36 3
37 1 * 2 = 1
38 Enter the first number
40 Enter the second number
41 4
^{42} What would you like to \frac{\text{do}}{\text{do}} with these 2 numbers
43 1. Addition
44 2. Subtraction
45 3. Multiplication
46 4. Division
47 5. Quit
48 4
49 4 / 4 = 1
```

Listing 2: Input and Output.Cpp

Krishnaraj PT. PA-20 · Both A) Lab - Assignment -8 20/11/22 FAQS (9.1) Dhy does #!/bis/sh have to be The first lin of my snipt? -> /bin/bash is the standard location of the Bourn shell on every Unix System. Adding # 6/bis/back as the first line of the script tells the Os to isvoke the specifical Show to execute the commands that follow. 1.2) How can I awas the name of the awsent show is my initialization. Scripto? - Using Echo command - the echo command is also used to paint the name of the shell (5.3) How can I deturiese it a command has bun excented succeptully? -> Every command sun is the back shell setuers a value that's stoud is the back vaciable \$?. It it is 0, command san suscessfully. un echo \$? to see the Value.