

Aayush Shah

D1 - 19BCE245

7 February 2021

Practical 2

Write a shell script for performing the functions of a basic calculator. (Using decision making and case control structure).

•Using decision making [if-else] :

```
1. echo "Enter operation : "  
2.  
3. echo "1. + (press 1)  
4. 2. - (press 2)  
5. 3. * (press 3)  
6. 4. / (press 4)"  
7.  
8. read operator  
9.  
10. echo -n "Enter first number : "  
11. read n1  
12.  
13. echo -n "Enter second number : "  
14. read n2  
15.  
16. echo -n "Answer : "  
17.  
18. if [ $operator = "1" ]  
19. then  
20.   echo "$n1 + $n2" | bc -l  
21. elif [ $operator = "2" ]  
22. then  
23.   echo "$n1 - $n2" | bc -l  
24. elif [ $operator = "3" ]  
25. then  
26.   echo "$n1 * $n2" | bc -l  
27. elif [ $operator = "4" ]
```

28. then

29. echo "\$n1 / \$n2 " | bc -l

30.

31. fi

OUTPUT:

```
Enter operation :
1. + (press 1)
2. - (press 2)
3. * (press 3)
4. / (press 4)
1
Enter first number : 2
Enter second number : 3
Answer : 5
```

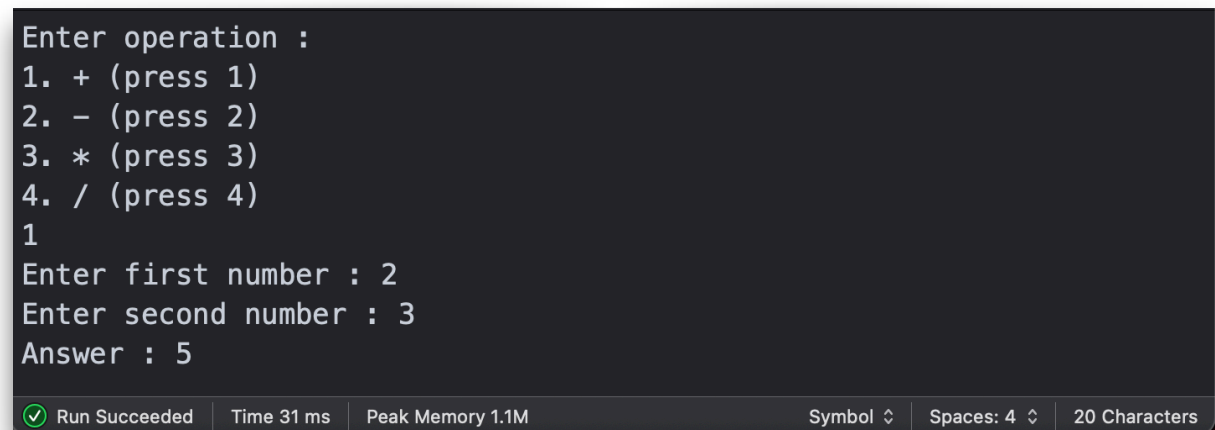
Run Succeeded | Time 21 ms | Peak Memory 1.1M | Symbol ↕ | Tabs: 4 ↕ | 32 Lines, 408 Characters

•Using case control structure :

```
1. echo "Enter operation : "
2.
3. echo "1. + (press 1)
4. 2. - (press 2)
5. 3. * (press 3)
6. 4. / (press 4)"
7.
8. read operator
9.
10. echo -n "Enter first number : "
11. read n1
12.
13. echo -n "Enter second number : "
14. read n2
15.
16. echo -n "Answer : "
17.
18. case $operator in
19.
```

```
20.    1) echo "$n1 + $n2" | bc -l;;
21.
22.    2) echo "$n1 - $n2 " | bc -l;;
23.
24.    3) echo "$n1 * $n2 " | bc -l;;
25.
26.    4) echo "$n1 / $n2 " | bc -l;;
27.
28.    *) echo "Invalid operator";;
29.
30.esac
```

OUTPUT:



```
Enter operation :
1. + (press 1)
2. - (press 2)
3. * (press 3)
4. / (press 4)
1
Enter first number : 2
Enter second number : 3
Answer : 5
```

✓ Run Succeeded | Time 31 ms | Peak Memory 1.1M | Symbol | Spaces: 4 | 20 Characters