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Lab 10

Task 1: Write a script that checks if a file named data.txt exists or not.

Code:

Output:

```
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$ pico task1.sh
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$ chmod +x task1.sh
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$ ./task1.sh
data.txt does not exist
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$
```

Task 2: Ask the user to enter a number and determine if it's even or odd.

Code:

Output:

```
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$ pico task2.sh
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$ chmod +x task2.sh
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$ ./task2.sh
Enter a number:
6
6 is even
```

Task 3: Ask the user for a score (0-100) and print the corresponding grade:

- 90+: A
- 80-89: B
- 70-79: C
- 60-69: D
- Below 60: F

Code:

```
Oct 20 14:22
                         ayesha@ayesha-VMware-Virtual-Platform: ~/lab10
 GNU nano 7.2
                                          task3.sh
<mark>echo "Enter your marks:"</mark>
read marks
if [ $marks -ge 90 ]
then
echo "Grade : A"
[ Help | $marks -ge 80 ]
then
echo "Grade : B"
elif_[ $marks -ge 70 ]
then
elif [ $marks -ge 60 ]
echo "Grade : D"
else
echo "Grade : F"
^G Help
              ^O Write Out ^W Where Is
                                           ^K Cut
                                                         ^T Execute
                                                                        ^C Location
              ^R Read File ^\ Replace
                                           ^U Paste
^X Exit
                                                         ^J Justify
                                                                        ^/ Go To Line
```

Output:

```
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$ pico task3.sh
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$ chmod +x task3.sh
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$ ./task3.sh
Enter your marks:
92
Grade : A
```

Task 4: Take two numbers and an operator (+, -, *, /) from the user and perform the operation.

Code:

```
OCL 20 14-37
                                ayesha@ayesha-VMware-Virtual-Platform: ~/lab10
GNU nano 7.2
echo "Enter 1st number:"
                                                 task4.sh
echo "Enter operator (+,-,*,/):"
read op
echo "Enter 2nd number:"
read n2
if [ "$op" = "+" ]
then
result=$(( n1 + n2 ))
elif [ "$op" = "-" ]
result=$(( n1 - n2 ))
echo "Result: $result"
elif_[ "$op" = "*" ]
then
result=$((n1 * n2 ))
elif_[ "$op" = "/" ]
then sif [ $n2 -eq 0 ]
```

```
[+]
                              ayesha@ayesha-VMware-Virtual-Platform: ~/lab10
 GNU nano 7.2
                                              task4.sh
echo "Result: $result"
elif [ "$op" = "-" ]
result=$(( n1 - n2 ))
echo "Result: $result"
elif [ "$op" = "*" ]
then
result=$((n1 * n2 ))
echo "Result: $ result"
elif_[ "$op" = "/" ]
then
if [ $n2 -eq 0 ]
echo"Division by zero not allowed"
result=$(( n1 / n2 ))
echo "Result : $result"
echo "Invalid!!!"
```

Output:

```
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$ ./task4.sh
Enter 1st number:
8
Enter operator (+,-,*,/):
/
Enter 2nd number:
2
Result : 4
ayesha@ayesha-VMware-Virtual-Platform:~/lab10$
```