OSSD Practice 1

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1.Github
2.
#!/bin/bash
echo "Hello, World!"
3.
#!/bin/bash
echo -n "Please enter your name: "
read name
echo "Hello, $name!"
4.
#!/bin/bash
echo -n "Enter a number to calculate its factorial: "
read num
fact=1
for ((i=1; i<=$num; i++)); do
  fact=$((fact * i))
echo "Factorial of $num is $fact"
5.
#!/bin/bash
echo -n "Enter the directory path: "
read directory
echo -n "Enter the filename to check: "
read filename
if [ -e "$directory/$filename" ]; then
  echo "$filename exists in $directory"
else
  echo "$filename does not exist in $directory"
fi
6.
#!/bin/bash
echo -n "Enter the directory path: "
read dir
Is -I "$dir"
7.
#!/bin/bash
echo -n "Enter the file path: "
```

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read filepath
if [ -e "$filepath" ]; then
  lines=$(wc -l < "$filepath")
  echo "Number of lines in $filepath: $lines"
else
  echo "File not found!"
fi
8.
#!/bin/bash
echo -n "Enter the first number: "
read num1
echo -n "Enter the second number: "
read num2
echo "Sum: $(($num1 + $num2))"
echo "Difference: $(($num1 - $num2))"
echo "Product: $(($num1 * $num2))"
if [ "$num2" -ne 0 ]; then
  echo "Division: $(($num1 / $num2))"
else
  echo "Division by zero is undefined."
fi
9.
#!/bin/bash
echo -n "Enter a string: "
read string
reverse=$(echo "$string" | rev)
if [ "$string" == "$reverse" ]; then
  echo "$string is a palindrome."
else
  echo "$string is not a palindrome."
fi
10.
awk -F ',' '{print $2}' file.csv
11. awk -F '\t' '{sum+=$3} END {print "Total sum:", sum}' file.tsv
12. sed -i 's/apple/orange/g' file.txt
13. sed -i '/^$/d' file.txt
```