1. **Write a shell script to assign value to the variable? Display value with $ and without $.**

```
var="Hello World"
echo "With \$: $var"
echo "Wihtout \$:var"
```

2. **Write a shell script to accept numbers from user. (Keyboard)**

```
echo "Enter a number"
read num
echo "You entered : $num"
```

3. **Write a shell script to accept numbers from command line arguments.**

```
if [ $# -eq 0 ]; then
  echo "No arguments passed"
else
  echo "You entered : $@"
fi
```

4. **Write a shell script to show the contents of environmental variables SHELL,PATH,HOME.**

```
echo "Shell : $SHELL"
echo "PATH : $PATH"
echo "Home : $HOME"
```

5. **. Write a shell script to create two files. Accept file names from user.**

```
echo "Enter file 1"
read file1
echo "Enter file 2"
read file2
touch "$file1" "$file2"
echo "Files successfully created"
```

6. **Write a shell script to create two directories. Accept directories name from Command line**

```
if [ $# -lt 2 ]; then
   echo "Plz enter 2 direc name "
   exit 1
fi
mkdir -p "$1" , "$2"
echo " 2 direc created "
```

7. . **Write a shell script to copy file content of one file to another file. Accept files names from command line argument.**

```
if [ $# -lt 2 ]; then
    echo "Plz provide destination and source file name"
    exit 1
fi
```

```
cp "$1" "$2"
echo "content of $1 copied to $2"
```

8. **Write a shell script to perform arithmetic operation of integer data.**

```
 echo "Enter 2 numbers "
read num1
read num2
echo "SUM : $[$num1+$num2]"
echo "SUBSTRACT : $[$num1-$num2]"
echo "PRODUCT : $((num1*num2))"
echo "DIVISION : $(($num1/$num2))"
```

9. . **Write a shell script to perform arithmetic operation of float data.**

```
read num1
read num2
SUM=$(echo "$num1+$num2" | bc)
DIFF=$(echo "$num1-$num2" | bc)
PROD=$(echo "$num1*$num2" | bc)
DIV=$(echo "scale=2; $num1/$num2" | bc)
echo "SUM : $SUM"
echo "DIFF : $DIFF"
echo "PROD : $PROD"
echo "DIV : $DIV"
```

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10. **Write a shell script to check number entered by the user is greater than 10.**

```
echo "Enter a number : "

read num

if [ $num -gt 10 ]
then
  echo "The number is greater than 10"
else
  echo "The nu,ber is not greater than 10."
Fi
```

11. **. Write a shell script to check if a file exists. If not, then create it**

```
if [ -f $1 ]
then
 echo "The file is present"
else
touch $1
 echo "The file $1 is created."
Fi
```

12. **Write a shell script that takes two command line arguments. Check whether the name passed as first argument is of a directory or not. If not ,create directory using name passed as second argument.**

```
if [ -d "$1" ]; then
 echo "$1 is a directory."
else
 echo "$1 is not a directory. Creating directory $2."
mkdir -p "$2"
 fi
```

13. . **Write a shell script which checks the total arguments passed. If the argument count is greater than 5, then display message "Too many arguments"**

```
if [ $# -gt ]
then
 echo "Too many arguments"
else
  echo "Arguments count is within the limit"
fi
```

14. **Write a shell script to check arguments passed at command line is whether of a file or directory.**

```
arg=$1
  if [ -f "$arg" ]; then
     echo "$arg is a file"
  elif [ -d "$arg" ]; then
     echo "$arg is a directory"
  else
    echo "$arg is neither a file nor a directory"
  fi
```

15. **Write a shell script to read a month name from the user. Check if the name entered is either August or October.**

```
 echo "Enter the name of any month : :"
read month
if [ $month = "August" ] || [ $month = "October" ]
then
echo "The month is august or october"
else
echo "The month is neither August or October"
fi
```

16. **Write a shell script to check whether file or directory exists.**

```
 echo "Enter the path : "
read path
```

```
if [ -e $path ]
then
 echo "$path exists"
else
 echo "$path doesn not exist."
fi
```

17. **Write a shell script to check whether file is exists and file is readable.**

```
echo "Enter the file name."
read filename
if [ -e "$filename" ]; then
 echo "The file $filename exists"

 if [ -r $filename ]
 then
 echo "The file $filename is readable"
 else
 echo "The file $filename is not readable"
 fi

else
 echo "The file $filename does not  exist "
fi
```

18. **. Write a shell script to check if the present month is August or not. Use date command to get present month.**

```
current_month=$(date +%B)

if [ $current_month = "August" ]; then
 echo "The current month is August"
else
 echo "Not August"
fi
```

19. **Write a shell script to check if the current user is root or regular user.**

```
if [ $(id -u) -eq 0 ]; then
 echo "The current user is  root."
else
 echo "The current user is a regular user."
fi
```

20. **Write a shell script to check the total arguments passed at command line. If the arguments are more than 3 then list the argument else print "type more next time"**

```
if [ $# -gt 3 ]
 then
   echo "Arguments are more than 3. Listing them : "
   echo "$*"
```

```
else
  echo "Type more next time."
fi
```