ASSIGNMENT 4

Assignment 4: Find the Smallest Number from the Array

Description:

This script finds the smallest number from an array.

Script:

```sh
#!/bin/sh
# Find the smallest number from the array
echo "Enter the numbers separated by spaces:"
read input
# Convert the input string to an array
arr=$(echo $input)
# Initialize min with the first element of the array
min=$(echo $arr | awk '{print $1}')
# Loop through the array to find the smallest number
for num in $arr; do
    if [ "$num" -lt "$min" ]; then
        min="$num"
    fi
done
echo "The smallest number is $min"
```

Sample output:

Enter the numbers separated by spaces:

3 5 2 8 1 9

The smallest number is 1

rps@rps-virtual-machine: ~/programs

```
GNU nano 6.2                              find_min.sh
#!/bin/sh

# Find the smallest number from the array

echo "Enter the numbers separated by spaces:"
read input

# Convert the input string to an array
arr=$(echo $input)

# Initialize min with the first element of the array
min=$(echo $arr | awk '{print $1}')

# Loop through the array to find the smallest number
for num in $arr; do
    if [ "$num" -lt "$min" ]; then
        min="$num"
    fi
done

echo "The smallest number is $min"
```

[Read 22 lines]

```
^G Help      ^O Write Out   ^W Where Is   ^K Cut      ^T Execute    ^C Location    M-U Undo    M-A Set Mark   M-] To Bracket
^X Exit      ^R Read File   ^\ Replace    ^U Paste    ^J Justify    ^/ Go To Line  M-E Redo    M-6 Copy       ^Q Where Was
```

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rps@rps-virtual-machine: ~/programs

```
rps@rps-virtual-machine:~/programs$ nano find_min.sh
rps@rps-virtual-machine:~/programs$ chmod 777 ./find_min.sh
rps@rps-virtual-machine:~/programs$ ./find_min.sh
Enter the numbers separated by spaces:
99 36 4 8 16 2
The smallest number is 2
rps@rps-virtual-machine:~/programs$
```