```bash
#!/bin/bash

# find factorial using recurrence method
function factorial_recurrence {
  if [ $1 -eq 1 ]; then
    echo 1
  else
    echo $(( $1 * $(factorial_recurrence $(( $1 - 1 ))) ))
  fi
}

# prompt user to enter a number
echo "Enter a number:"
read num

# calculate factorial using recurrence method
result_recurrence=$(factorial_recurrence $num)

# print the result
echo "Factorial of $num using recurrence method is: $result_recurrence"
```