```bash
# Bash Shell Scripting Cheat Sheet

## 1. Basic Commands

# Display text
echo "Hello World"

# Read input
echo -n "Enter your name: "
read name

# Use input
echo "Hello, $name!"

# List files and directories
ls

# Change directory
cd /path/to/directory

## 2. Variables

# Define a variable
name="John"

# Access a variable
echo $name

# Arithmetic operations
a=10
b=5
sum=$((a + b))
echo "Sum: $sum"

# String concatenation
str1="Hello"
str2="World"
echo "$str1 $str2"

## 3. Conditional Statements

# If-Else
if [ "$a" -gt "$b" ]; then
    echo "$a is greater than $b"
else
    echo "$b is greater than $a"
fi

# Check if a file exists
if [ -e "file.txt" ]; then
    echo "File exists"
else
    echo "File doesn't exist"
fi

## 4. Loops

# For Loop
for i in {1..5}; do
    echo "Number $i"
done

# While Loop
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```bash
count=1
while [ $count -le 5 ]; do
    echo "Counter: $count"
    ((count++))
done

# Until Loop
count=1
until [ $count -gt 5 ]; do
    echo "Counter: $count"
    ((count++))
done

## 5. Functions

# Define a function
myFunction() {
    echo "Hello from the function!"
}

# Call the function
myFunction

## 6. File Operations

# Create a file
touch file.txt

# Write to a file
echo "This is a file" > file.txt

# Append to a file
echo "Additional line" >> file.txt

# Read from a file
cat file.txt

# Remove a file
rm file.txt

## 7. Permissions

# Change file permissions
chmod +x script.sh

# Change file owner
chown user:group file.txt

## 8. Special Variables

# Script Name
echo $0

# All Arguments
echo $@

# Number of Arguments
echo $#

# Exit Status of Last Command
echo $?

# Process ID
echo $$
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```bash
# User ID
echo $USER

## 9. Pipe and Redirect

# Pipe output to another command
echo "Hello" | tr 'a-z' 'A-Z'

# Redirect output to a file
echo "Hello World" > output.txt

# Append output to a file
echo "New Line" >> output.txt

# Redirect error output
ls /nonexistent_folder 2> error.log

## 10. Comment

# Single-line comment
# This is a comment

# Multi-line comment
: '
This is a multi-line comment.
It can span multiple lines.
'
```