

```
# write a shell script that uses a switch-case (case statement) to
#let the user:
#1 Check if a file exists
#2 Check if a directory exists
#3 Check if a file is empty
# Function to check if a file exists
```

CODE

```
check_file() {
    echo "Enter the file name:"
    read filename
    if [ -f "$filename" ]; then
        echo "File '$filename' exists."
    else
        echo "File '$filename' does not exist."
    fi
}

# Function to check if a directory exists
check_directory() {
    echo "Enter the directory name:"
    read dirname
    if [ -d "$dirname" ]; then
        echo "Directory '$dirname' exists."
    else
        echo "Directory '$dirname' does not exist."
    fi
}

# Function to check if a file is empty
check_empty_file() {
    echo "Enter the file name:"
    read filename
    if [ -f "$filename" ]; then
        if [ ! -s "$filename" ]; then
```

```

        echo "File '$filename' is empty."
    else
        echo "File '$filename' is not empty."
    fi
else
    echo "File '$filename' does not exist."
fi
}

```

Main menu using case statement

```

echo "Choose an option:"
echo "1. Check if a file exists"
echo "2. Check if a directory exists"
echo "3. Check if a file is empty"
echo "4. Exit"
read choice

```

```

case $choice in
    1) check_file;;
    2) check_directory ;;
    3) check_empty_file ;;
    4) echo "Exiting..."; exit ;;
    *) echo "Invalid option. Please enter a valid choice." ;;
esac

```

Function to display digital clock and calendar

```

show_clock_calendar() {
    while true; do
        clear
        echo "=====
echo " DIGITAL CLOCK & CALENDAR "
        echo "=====
        echo ""
        echo " Time: $(date +"%H:%M:%S")"
    done
}

```

```
    echo " Date: $(date +"%d %B %Y")"
    #%d The two-digit day of the month padded with leading zeroes
    if applicable. Example: 09.
    #%B The full month name. Example: September.
    #%Y The four-digit year. Example: 2001.
    echo ""
    cal
    echo ""
    echo "=====
    sleep 1 # Wait for 1 second before updating
done
}
# Call the function
show_clock_calendar
```