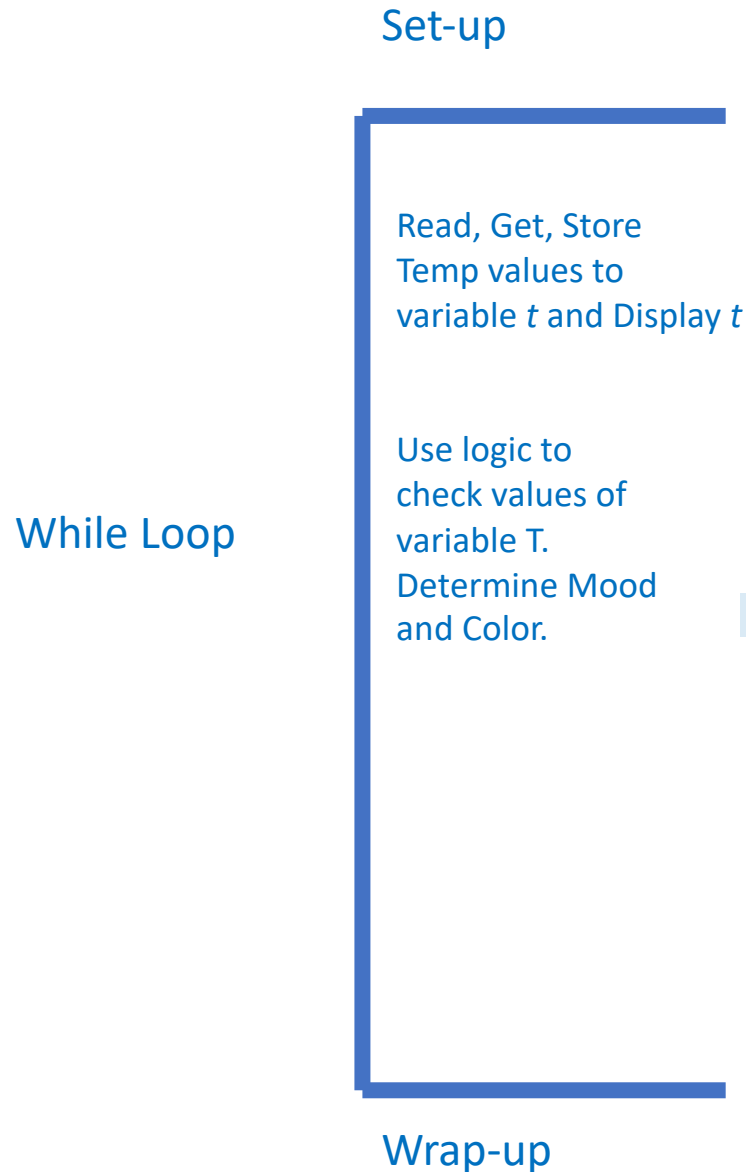


Mood Ring STEM/STEAM Event Handout

Digital Mood Ring Program for TI-84 Plus CE



```
PROGRAM: MOODEVNT
Send ("CONNECT TEMPERATURE 1 TO IN1")
ClrHome
Output(1,1,"THE MOOD RING")
Output(8,1,"PRESS CLEAR TO QUIT")
0→K
While K≠45
getKey →K
Send("READ TEMPERATURE 1")
Get T
Output(4,1,"TEMPERATURE(°C)= ")
Output(4,18,T)
If T<24
Then
Send("SET COLOR 255 0 0")
Output(5,1,"YOU ARE STRESSED ")
End
If T≥24 and T<26
Then
Send("SET COLOR 255 100 175")
Output(5,1,"YOU ARE HAPPY ")
End
If T≥26
Then
Send("SET COLOR 0 255 150")
Output(5,1,"YOU ARE RELAXED ")
End
Wait 0.5
End
Send("SET COLOR 0 0 0")
```

Change mood by editing text.

Change colors by editing values, 0 to 255, of RED GREEN BLUE.

Change temperature ranges by editing threshold values.

Digital Mood Ring Program for TI-84 Plus CE

**Edit the program to make it
your own.**

```
PROGRAM: MOODEVNT
Send ("CONNECT TEMPERATURE 1 TO IN1")
ClrHome
Output(1,1,"THE MOOD RING")
Output(8,1,"PRESS CLEAR TO QUIT")
0→K
While K≠45
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Get T
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Send("SET COLOR 255 100 175")
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End
If T≥26
Then
Send("SET COLOR 0 255 150")
Output(5,1,"YOU ARE RELAXED ")
End
Wait 0.5
End
Send("SET COLOR 0 0 0")
```

Change mood by editing text.

Change colors by editing values,
0 to 255, of RED GREEN BLUE.

Change temperature ranges by editing
threshold values.

Mood Ring STEM/STEAM Event Handout – Halloween Edition

Digital Mood Ring Program for TI-84 Plus CE

PROGRAM: MOODEVNT

Send ("CONNECT TEMPERATURE 1 TO IN1")

ClrHome

Output(1,1,"THE MOOD RING")

Output(2,1,"HALLOWEEN EDITION")

Output(8,1,"PRESS CLEAR TO QUIT")

0→K

While K≠45

getKey →K

Send("READ TEMPERATURE 1")

Get T

Output(4,1,"TEMPERATURE(°C)= ")

Output(4,18,T)

If T<24

Then

Send("SET COLOR 255 0 0")

Output(5,1,"YOU ARE A ZOMBIE ")

End

If T≥24 and T<26

Then

Send("SET COLOR 255 100 175")

Output(5,1,"YOU ARE A VAMPIRE")

End

If T≥26

Then

Send("SET COLOR 0 255 150")

Output(5,1,"YOU ARE A MUMMY ")

End

Wait 0.5

End

Send("SET COLOR 0 0 0")

Set-up

Read, Get, Store
Temp values to
variable t and Display t

Use logic to
check values of
variable T .
Determine Mood
and Color.

While Loop

Wrap-up

Change mood by editing text.

Change colors by editing values,
0 to 255, of RED GREEN BLUE.

Change temperature ranges by editing
threshold values.

Digital Mood Ring Program for TI-84 Plus CE

**Edit the program to make it
your own.**

```
PROGRAM: MOODEVNT
Send ("CONNECT TEMPERATURE 1 TO IN1")
ClrHome
Output(1,1,"THE MOOD RING")
Output(2,1,"HALLOWEEN EDITION")
Output(8,1,"PRESS CLEAR TO QUIT")
0→K
While K≠45
getKey →K
Send("READ TEMPERATURE 1")
Get T
Output(4,1,"TEMPERATURE(°C)= ")
Output(4,18,T)
If T<24
Then
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End
If T≥24 and T<26
Then
Send("SET COLOR 255 100 175")
Output(5,1,"YOU ARE A VAMPIRE")
End
If T≥26
Then
Send("SET COLOR 0 255 150")
Output(5,1,"YOU ARE A MUMMY ")
End
Wait 0.5
End
Send("SET COLOR 0 0 0")
```

Change mood by editing text.

Change colors by editing values,
0 to 255, of RED GREEN BLUE.

Change temperature ranges by editing
threshold values.