

# Python Project

## Project-18

✚ WRITE A PROGRAM TO CALCULATE ANGLE BETWEEN HOUR HAND AND MINUTES HAND

### CODE-

```
a=input("Enter the Time: ").split(':')#created a list with splitting through colon.
h = int(a[0])#converted elements of list to integer
m = int(a[-1])

hangle = h*30+m*(0.5)#Calculated angle made by hour hand
mangle = m*6#Calculated angle made by minute hand

if (hangle>mangle):
    ans = hangle-mangle
else:
    ans = mangle-hangle

x=int(360-ans)
y=int(720-ans)
z=int(ans)

if (ans>180 and ans<=360):
    print("The angle is " + str(x) +chr(176))#chr(176) is used for addition of degree symbol
elif(ans>360):
    print("The angle is " + str(y) +chr(176))
else:
    print("The angle is " + str(z) +chr(176))
```

### OUTPUT-

```
Enter the Time: 5:30
The angle is 15°

=====

Enter the Time: 21:00
The angle is 90.0°

=====

Enter the Time: 12:00
The angle is 0°
```

### Group-18

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