LOVELY PROFESSIONAL UNIVERSITY

PORTFOLIO

PYTHON PROGRAMMING

(INT108)

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PYTHON SOURCE CODE

```python
def Angle(h,m):
        if (h < 0 or m < 0 or h > 24 or m >
60):
            print('No Such Data Available')

        if (h == 12):
            h = 0
        if (m == 60):
            m = 0
            h += 1;
            if(h>12):
                    h = h-12;

        hour_angle = 0.5 * (h * 60 + m)
        minute_angle = 6 * m
        angle = abs(minute_angle - hour_angle)
        angle = min(720-angle, angle)

        return angle
h,m =input().split(':')
h =int(h)
m =int(m)
degree =Angle(h,m)
print(int(degree),chr(176),sep='')
```

OUTPUT

```
IDLE Shell 3.10.7

File  Edit  Shell  Debug  Options  Window  Help

    Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
>>>
    ================== RESTART: C:/Users/futur/Desktop/clock.py ==================
    5:30
    15°
>>>
    ================== RESTART: C:/Users/futur/Desktop/clock.py ==================
    21:00
    90°
>>>
    ================== RESTART: C:/Users/futur/Desktop/clock.py ==================
    12:00
    0°
>>>
```