

II/OI의 2차 2210월 3주 [03] week 9 4월4일 2017528 0184

```
import math
```

```
Print (math.sin(45))
```

```
Print (math.sin (math.radians(45)))
```

```
deg = 45
```

```
rad = (deg/180)*math.PI
```

```
Print (math.sin(rad))
```

34.

```
It = [(1, 'a'), (2, 'b'), (3, 'c'), (4, 'd')];
```

```
for i, j in It:
```

```
    Print(j)
```

```
for i in It:
```

```
    Print (i[1])
```

35.

```
for kk in range(101):
```

```
    if kk%2==0:
```

```
        Print(kk)
```

```
    It2.append(kk)
```

```
Print (It2)
```

```
Print (sum(It2))
```

```
= It2 = [kk for kk in range(101) if kk%2==0] 결과.
```

36.

```
Pt = [(3, 5), (1, -1), (8, 9)]
```

```
Xx = []; Yy = []
```

```
for kk in Pt:
```

```
    Xx.append(kk[0])
```

```
    Yy.append(kk[1])
```

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37.

```
def mysum (Var):  
    hap=0  
    for kk in range (Var[0], Var[1]):  
        if kk % Var[2] == 0:  
            hap += kk  
    return hap  
Print (mysum (1, 101, 2))
```

38.

```
def CalCoin (money):  
    C500 = money  
    C100 = (money - 500 * (500))  
    C50 = (money - 500 * (500 - 100 * C100))  
    return (C500, C100, C50)  
Print (CalCoin (1500))
```

40.

```
import math  
def Polar2Cart (Var):  
    xxx = math.cos (math.radians (Var['theta'])) * Var['rr']  
    yyy = math.sin (math.radians (Var['theta'])) * Var['rr']  
    Pt1 = ('rr': 10, 'theta': 40)  
    Print (Pt1, Polar2Cart (Pt1))
```

39. import math

```
def Car2Polar (Var):  
    xxx = math.cos (math.radians (Var[0])) * Var[1]  
    yyy = math.sin (math.radians (Var[0])) * Var[1]  
    return (xxx, yyy)  
Pt1 = (10, 10)  
Print (Pt1, Car2Polar (Pt1))
```

41.

```
import math  
def CalCylinderArea (rr, hh):  
    CA = math.pi * math.pow (rr, 2)  
    CR = 2 * math.pi * rr  
    RA = CR * hh  
    return 2 * CA + RA.  
area = CalCylinderArea (10, 4)  
Print (area)
```