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# ===== if =====
age = int(input("너 몇살이니? "))
if age < 19:
    print("애들은 가라")

# ===== compare =====
a = 3
if a == 3:
    print("3이다")
if a > 5:
    print("5보다 크다")
if a < 5:
    print("5보다 작다")

# ===== stringcompare =====
country = "Korea"
if country == "Korea":
    print("한국입니다.")
if country == "korea":
    print("대한민국입니다.")

# ===== stringcompare2 =====
if ("korea" > "japan"):
    print("한국이 더 크다")
if ("korea" < "japan"):
    print("일본이 더 크다")

# ===== intbool =====
energy = 1
if energy:
    print("열심히 싸운다")

# ===== andrange =====
a = 3
if a > 1 and a < 10:
    print("OK")

# ===== block =====
age = 16
if age < 19:

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    print("애들은 가라")
    print("공부 열심히 해야지")

# ===== block2 =====
age = 22
if age < 19:
    print("애들은 가라")
    print("공부 열심히 해야지")

# ===== ifelse =====
age = 22
if age < 19:
    print("애들은 가라")
else:
    print("어서 옵쇼")

# ===== ifblock =====
age = 12
if age < 19:
    print("애들은 가라")
    print("공부 열심히 해야지")
else:
    print("어서 옵쇼")
    print("즐거운 시간 되세요")

# ===== ifelif =====
age = 23
if age < 19:
    print("애들은 가라")
elif age < 25:
    print("대학생입니다")
else:
    print("어서 옵쇼")

# ===== elif =====
money = 6500
if money >= 20000:
    print("탕수육을 먹는다")
elif money >= 10000:
    print("쟁반 짜장을 먹는다")
elif money >= 6000:

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    print("짬뽕을 먹는다")
elif money >= 4000:
    print("짜장면을 먹는다")
else:
    print("단무지를 먹는다")

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# ===== ifif =====
man = True
age = 22
if man == True:
    if age >= 19:
        print("성인 남자입니다.")

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# ===== ifif2 =====
Man = True
age = 22
if man == True:
    if age >= 19:
        print("성인 남자입니다.")
    else:
        print("소년입니다.")

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## ##

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# ===== while =====
student = 1
while student <= 5:
    print(student, "번 학생의 성적을 처리한다.")
    student += 1

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# ===== sum100 =====
num = 1
sum = 0
while num <= 100:
    sum += num
    num += 1
print ("sum =", sum)

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# ===== sumodd =====
num = 151

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sum = 0
while num <= 300:
    sum += num
    num += 2
print ("sum =",sum)
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# ===== for =====
for student in [1, 2, 3, 4, 5]:
    print(student, "번 학생의 성적을 처리한다.")
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# ===== forsum =====
sum = 0
for num in range(1, 101):
    sum += num
print ("sum =",sum)
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# ===== forsum2 =====
sum = 0
for num in range(2, 101, 2):
    sum += num
print ("sum =",sum)
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# ===== ruler =====
for x in range(1, 51):
    if (x % 10 == 0):
        print('+', end= '')
    else:
        print('-', end = '')
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# ===== ruler2 =====
for x in range(1, 5):
    print('-', * 9, end = '')
    print('+', end = '')
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# ===== ruler3 =====
x = 1
while x <= 50:
    if (x % 10):
        print('-', end= '')
    else:
        print('+', end = '')
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x += 1

# ===== ruler4 =====
for x in range(1, 51):
    if (x % 5 == 0):
        print('+', end= '')
    else:
        print('-', end = '')

# ===== ruler5 =====
for x in range(1, 51):
    if (x % 10 == 5):
        print('+', end= '')
    else:
        print('-', end = '')

# ===== break =====
score = [ 92, 86, 68, 120, 56]
for s in score:
    if (s < 0 or s > 100):
        break
    print(s)
print("성적 처리 끝")

# ===== continue =====
score = [ 92, 86, 68, -1, 56]
for s in score:
    if (s == -1):
        continue
    print(s)
print("성적 처리 끝")

# ===== gugudan =====
for dan in range(2, 10):
    print(dan, "단")
    for hang in range(2, 10):
        print(dan, "*", hang, "=", dan * hang)
    print()

# ===== gugudanwhile =====
dan = 2

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while dan <= 9:
    hang = 2
    print(dan, "단")
    while hang <= 9:
        print(dan, "*", hang, "=", dan * hang)
        hang += 1
    dan += 1
    print()

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# ===== triangle =====
for y in range(1, 10) :
    for x in range(y) :
        print('*', end = '')
    print()

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# ===== infinite =====
print("3 + 4 = ?")
while True:
    a = int(input("정답을 입력하시오 : "))
    if (a == 7): break
print("참 잘했어요")

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# ===== zerobase =====
for ten in range(0, 5) :
    for num in range(ten * 10, ten * 10 + 10) :
        print(num, end = ',')
    print()

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# ===== repeat =====
sum = 0
for num in range( 5):
    sum += num
print("~ 4 =", sum)

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sum = 0
for num in range(11):
    sum += num
print("~ 10 =", sum)

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# ===== calcsun =====
def calcsun(n):
    sum = 0
    for num in range(n + 1):
        sum += num
    return sum

print("~ 4 =", calcsun(4))
print("~ 10 =", calcsun(10))

# ===== calcrange =====
def calcrange(begin, end):
    sum = 0
    for num in range(begin, end + 1):
        sum += num
    return sum

print("3 ~ 7 =", calcrange(3, 7))
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