

# 设计九九表和口算生成器

## 一层循环

知识点: for, range, print

In [1]:

```
for i in range(1,10):  
    print("%d * %d = %d"%(i,i,i*i))
```

```
1 * 1 = 1  
2 * 2 = 4  
3 * 3 = 9  
4 * 4 = 16  
5 * 5 = 25  
6 * 6 = 36  
7 * 7 = 49  
8 * 8 = 64  
9 * 9 = 81
```

## 两层循环

知识点: print的不换行

In [2]:

```
for i in range(1,10):  
    for n in range(1,i+1):  
        print("%d*%d = %d"%(n,i,i*n),end=" ")  
    print("")
```

```
1*1 = 1  
1*2 = 2 2*2 = 4  
1*3 = 3 2*3 = 6 3*3 = 9  
1*4 = 4 2*4 = 8 3*4 = 12 4*4 = 16  
1*5 = 5 2*5 = 10 3*5 = 15 4*5 = 20 5*5 = 25  
1*6 = 6 2*6 = 12 3*6 = 18 4*6 = 24 5*6 = 30 6*6 = 36  
1*7 = 7 2*7 = 14 3*7 = 21 4*7 = 28 5*7 = 35 6*7 = 42 7*7 = 49  
1*8 = 8 2*8 = 16 3*8 = 24 4*8 = 32 5*8 = 40 6*8 = 48 7*8 = 56 8*8 = 64  
1*9 = 9 2*9 = 18 3*9 = 27 4*9 = 36 5*9 = 45 6*9 = 54 7*9 = 63 8*9 = 72  
9*9 = 81
```

## 输出口算练习生成工具

1.加法

In [3]:

```
import random
x=int(input("输入要生成的题目数量"))
s1,s2="", ""
for n in range(x-1):
    i,j=random.randint(10,99),random.randint(10,99)
    s1=s1+("%d + %d ="%(i,j))+ "\n"
    s2=s2+("%d + %d = %d"%(i,j,i+j))+ "\n"

print("\n口算题目 (%d道) \n"%x)
print(s1)
print("\n口算题目参考答案\n")
print(s2)
```

输入要生成的题目数量10

口算题目 (10道)

91 + 25 =  
72 + 40 =  
72 + 20 =  
60 + 99 =  
41 + 60 =  
27 + 79 =  
47 + 13 =  
36 + 47 =  
32 + 35 =

口算题目参考答案

91 + 25 = 116  
72 + 40 = 112  
72 + 20 = 92  
60 + 99 = 159  
41 + 60 = 101  
27 + 79 = 106  
47 + 13 = 60  
36 + 47 = 83  
32 + 35 = 67

2. 减法

In [5]:

```
import random
x=int(input("输入要生成的题目数量"))
s1,s2="", ""
for n in range(x-1):
    i,j=random.randint(10,99),random.randint(10,99)
    if i<j:
        i,j=j,i
    s1=s1+("%d - %d ="%(i,j))+ "\n"
    s2=s2+("%d - %d = %d"%(i,j,i-j))+ "\n"

print("\n口算题目 (%d道) \n"%x)
print(s1)
print("\n口算题目参考答案\n")
print(s2)
```

输入要生成的题目数量10

口算题目 (10道)

90 - 57 =  
83 - 32 =  
98 - 49 =  
32 - 26 =  
30 - 28 =  
61 - 26 =  
92 - 60 =  
47 - 15 =  
87 - 64 =

口算题目参考答案

90 - 57 = 33  
83 - 32 = 51  
98 - 49 = 49  
32 - 26 = 6  
30 - 28 = 2  
61 - 26 = 35  
92 - 60 = 32  
47 - 15 = 32  
87 - 64 = 23

In [ ]: