```python
#(1)
a = 5
b = 3
print(f"输出的值为{(a+b)*(a-b)/2}")

#(2)
num = int(input("请输入一个整数:"))
if (num % 2 == 0):
    print("这个数是偶数")
else:
    print("这个数是奇数")

#(3)
grade = int(input("请输入成绩："))
if (grade >= 90):
    print("优秀")
elif (grade >= 70):
    print("良好")
elif (grade >= 60):
    print("及格")
else:
    print("不及格")

#（4）
year = int(input("请输入年份："))
if (year % 400 == 0):
    print("该年份是闰年")
elif (year % 4 == 0 and year % 100 != 0):
    print("该年份是闰年")
else:
    print("该年份不是闰年")

#(5)
day = input("请输入今天是星期几：")
l = ["星期一","星期二","星期三","星期四","星期五"]
if (day in l):
    print("今天是工作日")
else:
    print("今天是休息日")

#1
m = int(input("请输入行数："))
```

```python
n = int(input("请输入列数："))
for i in range(1,m+1):
    for j in range(1,n+1):
        print("*",end = "")
    print(" ")
```

2
```python
n = int(input("请输入行数："))
for i in range(1,n+1):
    print(" " * + (n - i) + "*" * (2 * i - 1)) """字符串可以使用*号来同时输出多个相同的字符串"'
```

#3
```python
n = int(input("猴子吃了几天："))
num = 1
for i in range(1,n):
    num = (num + 1) * 2
print(f"{n}天吃了{num}个桃子")
```

#4
```python
a = int(input("输入第一条边长："))
b = int(input("输入第二条边长："))
c = int(input("输入第三条边长："))
if(a + b > c and a + c > b and b + c > a):
    if(a == b == c):
        print("等边三角形")
    elif(a == b or a == c or c ==a):
        print("等腰三角形")
    if(a**2 + b**2 == c**2 or a**2 + c**2 == b**2 or b**2 + c**2 == a**2 ):
        print("直角三角形")
    elif(a**2 + b**2 > c**2 and a**2 + c**2 > b**2 and b**2 + c**2 > a**2  ):
        print("锐角三角形")
    else:
        print("钝角三角形")
else:
    print("不能组成三角形")
```