**第一日上午**

# 課堂練習1

## 1-1-1

for i in range (1,101):  
 print(i)

## 1-1-2

for i in range (100,0,-1):  
 print(i)

## 1-1-3

for i in range (2,101,2):  
 print(i)

## 1-1-4

for i in range (2,101,2):  
 print(i)

## 1-2-1

i = 100  
while i >= 1:  
 print(i)  
 i=i-1

## 1-2-2

i = -1  
while i <= 100:  
 print(i)  
 i=i+1

## 1-2-3

i = 1  
while i <= 12:  
 if i == 6 or i == 10:  
 i=i+1  
 continue  
 else:  
 print(i)  
 i=i+1

## 1-2-4

i = 100  
while i >= 0:  
 if i <=100 and i >=50:  
 print(i)  
 i = i - 1  
  
 if i < 50 and i >= 0:  
 print(50-i)  
 i = i - 1

## 1-2-5

i = 1  
while i <= 100:  
 if i % 2 == 1:  
 print(i)  
 i = i + 1

## 1-2-6

i = 1  
while i <= 100:  
 if i % 2 == 0:  
 print(i)  
 i = i + 1

## 1-2-7

i = 2  
sum = 0  
while i <= 100:  
 if i % 2 == 1:  
 sum = sum - i  
 i = i + 1  
 if i % 2 == 0:  
 sum = sum + i  
 i = i + 1  
print(sum)

# 課堂練習2

## 2-1

num = input("請輸入一個數字:")  
sum = 0  
for i in range (1,int(num)+1,1):  
 sum = sum + i  
  
print(sum)

## 2-2

**public** **class** Ex1 {

**public** **static** **void** main(String[] args) {

System.***out***.println("HelloWorld");

**double** money = 10000;

**int** year = 0;

**while**(money<20000)

{

money = money\*1.0325;

year++;

}

System.***out***.printf("%d年",year);

}

}

## 2-3

**public** **class** Ex1 {

**public** **static** **void** main(String[] args) {

System.***out***.println("HelloWorld");

**double** high = 100;

**double** distance = 0;

**int** t = 0;

**while**(t <11)

{

distance = distance + high + high/2;

high = high/2;

t++;

}

System.***out***.printf("第10次共經%.2f米\n",distance);

System.***out***.printf("第10次反彈%.2f米\n",high);

}

}

## 2-4

**import** java.util.Scanner;

**public** **class** Ex1 {

**public** **static** **void** main(String[] args) {

System.***out***.println("HelloWorld");

Scanner scanner = **new** Scanner(System.***in***); // 创建Scanner对象

System.***out***.print("輸入你的分數: "); // 打印提示

**int** num = scanner.nextInt(); // 读取一行输入并获取整数

**if**(num < 0 || num > 100)

{

System.***out***.println("輸入錯誤，請重新輸入");

}

**else** **if**(num>=90)

{

System.***out***.println("你的成績等級為A");

}

**else** **if**(num>=80 && num<=89)

{

System.***out***.println("你的成績等級為B");

}

**else** **if**(num>=70 && num<=79)

{

System.***out***.println("你的成績等級為C");

}

**else** **if**(num>=60 && num<=69)

{

System.***out***.println("你的成績等級為D");

}

**else** **if**(num<=60)

{

System.***out***.println("你的成績等級為E");

}

}

}

## 2-5

**import** java.util.Scanner;

**public** **class** Ex1 {

**public** **static** **void** main(String[] args) {

System.***out***.println("HelloWorld");

Scanner scanner = **new** Scanner(System.***in***); // 创建Scanner对象

System.***out***.print("輸入一個年份: "); // 打印提示

**int** year = scanner.nextInt(); // 读取一行输入并获取整数

**if**((year%4==0 && year%10!=0) || (year%400==0))

{

System.***out***.printf("%d是閏年\n",year);

}

**else**

{

System.***out***.printf("%d不是閏年\n",year);

}

}

}

## 2-6

**import** java.util.Scanner;

**public** **class** Ex1 {

**public** **static** **void** main(String[] args) {

System.***out***.println("HelloWorld");

Scanner scanner = **new** Scanner(System.***in***); // 创建Scanner对象

System.***out***.print("輸入你的名字: "); // 打印提示

String name = scanner.nextLine(); // 读取一行输入并获取字符串

System.***out***.print("輸入一個地點: "); // 打印提示

String location = scanner.nextLine();

System.***out***.print("輸入一個愛好: "); // 打印提示

String habit = scanner.nextLine();

System.***out***.printf("可愛的%s最喜歡在%s地方%s\n", name, location ,habit);

}

}

## 2-7

**public** **class** Ex1 {

**public** **static** **void** main(String[] args) {

System.***out***.println("HelloWorld");

**int** i = 0;

**int** j = 0;

**while** (i != 5) {

**while** (j != i + 1) {

System.***out***.print("\*");

j++;

}

j = 0;

i++;

**if** (i < 5) {

System.***out***.print("\n");

**continue**;

}

}

**if** (i == 5) {

**while** (i != 0) {

**while** (j != 0) {

System.***out***.print("\*");

j--;

}

j = i - 1;

System.***out***.print("\n");

i--;

}

}

}

}