1.

Tempmax = (30, 28, 29, 31, 33, 35, 32)

Tempmin = (20, 21, 19, 22, 23, 24, 20)

print('最高溫度:',Tempmax[0],Tempmax[1],Tempmax[2],Tempmax[3],Tempmax[4],Tempmax[5],Tempmax[6])

print('最低溫度:',Tempmin[0],Tempmin[1],Tempmin[2],Tempmin[3],Tempmin[4],Tempmin[5],Tempmin[6])

2.

member = ('John', 'Peter', 'Curry', 'Mike', 'Kevin')

for i in range(0, 5, 1):

print(member[i])

3.

week = {"Monday": "星期一",

"Tuesday": "星期二",

"Wednesday": "星期三",

"Thursday": "星期四",

"Friday": "星期五",

"Saturday": "星期六",

"Sunday": "星期日"}

n = input()

if n in week:

print(week[n])

else :

print("Error")

4.

month = {"一月": "January",

"二月": "February",

"三月": "March",

"四月": "April",

"五月": "May",

"六月": "June",

"七月": "July",

"八月": "August",

"九月": "September",

"十月": "October",

"十一月": "November",

"十二月": "December"}

n = input()

if n in month:

print(month[n])

else :

print("Error")

5.

6.

num1 = [i for i in range(1, 100, 2)]

num2 = [i for i in range(0, 101, 5)]

Intersection = set(num1).intersection(set(num2))

print('交集為:', sorted(Intersection))

union = set(num1).union(set(num2))

print('聯集為:', sorted(union))

difference1 = set(num1).difference(set(num2))

print('A-B差集為:', sorted(difference1))

difference2 = set(num2).difference(set(num1))

print('B-A差集為:', sorted(difference2))

symmetric\_difference1 = set(num1).symmetric\_difference(set(num2))

print('A-B對稱差集為:', sorted(symmetric\_difference1))

symmetric\_difference2 = set(num2).symmetric\_difference(set(num1))

print('B-A對稱差集為:', sorted(symmetric\_difference2))

7.

Math = ['Peter', 'Norton', 'Kevin', 'Mary', 'John', 'Ford', 'Nelson', 'Damon', 'Ivan', 'Tom']

Computer = ['Curry', 'James', 'Mary', 'Turisa', 'Tracy', 'Judy', 'Lee', 'Jarmul', 'Damon', 'Ivan']

Physics = ['Eric', 'Lee', 'Kevin', 'Mary', 'Christy', 'Josh', 'Nelson', 'Kazil', 'Linda', 'Tom']

intersection1 = set(Math).intersection(Computer, Physics)

print('同時參加3個夏令營的名單:', intersection1)

intersection2 = set(Math).intersection(Computer)

print('同時參加Math與Computer夏令營的名單:', intersection2)

intersection3 = set(Math).intersection(Physics)

print('同時參加Math與Physics夏令營的名單:', intersection3)

intersection4 = set(Physics).intersection(Computer)

print('同時參加Physics與Computer夏令營的名單:', intersection4)

8.

class CreateBankAccount():

def \_\_init\_\_(self,ID,name,count):

self.id = ID

self.name = name

self.balance = count

def deposit(self,amount):

if amount<=0:

print("失敗")

else:

self.balance += amount

print("帳戶",self.name,"餘額=",self.balance)

def withdraw(self,amount):

if amount<=self.balance:

self.balance -=amount

print("帳戶",self.name,"餘額=",self.balance)

else:

print("失敗")

def give(self,name,givemoney):

self.withdraw(givemoney)

name.deposit(givemoney)

id1=int(input("請輸入帳戶1之密碼= "))

name1=str(input("請輸入帳戶1之name= "))

id2=int(input("請輸入帳戶2之密碼= "))

name2=str(input("請輸入帳戶2之name= "))

count1 = 50000

count2 = 100000

account1 = CreateBankAccount(id1,name1,count1)

account2 = CreateBankAccount(id1,name2,count2)

a = int(input("請輸入帳戶1之存款金額"))

account1.deposit(a)

b=int(input("請輸入帳戶1之提款金額="))

account1.withdraw(b)

c=int(input("請輸入帳戶2之存款金額="))

account2.deposit(c)

d=int(input("請輸入帳戶2之提款金額="))

account2.withdraw(d)

givename = str(input("請輸入匯入帳戶(account1 or account2)= "))

givemoney = int(input("請輸入匯款金額= "))

if givename == 'account2':

print('已匯款給帳戶2')

account1.give(account2,givemoney)

else:

print('已匯款給帳戶1')

account2.give(account1,givemoney)

9.

list = ['資工', '電機', '化工']

class Myschool:

def \_\_init\_\_(self, title):

self.title = '東海大學'

def departments():

global list

print(list)

Myschool.departments()

10.

list = ['資工', '電機', '化工']

class Myschool:

def \_\_init\_\_(self, title):

self.title = '東海大學'

def departments():

global list

print('現在有的系所為:', list)

def add():

global list

n = input('請輸入要新增的系所:')

list.append(n)

print('現在有的系所為:', list)

def omit():

global list

m = input('請輸入要刪除的系所:')

list.remove(m)

print('現在有的系所為:', list)

Myschool.departments()

Myschool.add()

Myschool.omit()