1. Write a program to check Leap year.

```
y= int(input("Enter Year: "))

if (y%400==0):
  print(y,"is leap year")
elif (y%100==0):
  print(y, "is not a leap yaer")
elif (y%4==0):
  print(y, "is a leap yaer")
else:
  print(y, "is not a leap yaer")
```

```
Enter Year: 1998
1998 is not a leap yaer
```

3. Suppose you are going to start a Django Project with a group of 5 members. Now, you need to store the information (Name, ID, CGPA, Email_Address, and Contact_no) about the group members in some variables. Choose the appropriate data type where one can search a member effectively.

```
group= {

    10 : {
        "Name" : "ABC",
        "ID" : "10",
        "CGPA" : 3.55,
        "Email_Adress" : "a@gmail.com",
        "Contact_No" : "01714000002"
    },

    11: {
        "Name" : "DEF",
         "ID" : "11",
         "CGPA" : 3.45,
         "Email_Address" : "b@gmail.com",
         "Contact_No" : "01714000001"
    },

    12: {
        "Name" : "HIJ",
         "ID" : "12",
         "CGPA" : 3.95,
         "Email_Address" : "c@gmail.com",
         "Contact_No" : "01716000001"
    },

    13:{
        "Name" : "DEF",
        "ID" : "13",
        "CGPA" : 3.15
```

```
        "CGPA" : 3.15,
        "Email_Address" : "d@gmail.com",
        "Contact_No" : "01814000009"
    },

    14: {
        "Name" : "DEF",
         "ID" : "14",
         "CGPA" : 3.42,
         "Email_Address" : "e@gmail.com",
         "Contact_No" : "015140000060"
    }

}

group[12]
```

```
{'CGPA': 3.95,
 'Contact_No': '01716000001',
 'Email_Address': 'c@gmail.com',
 'ID': '12',
 'Name': 'HIJ'}
```

2. Given a string of length 12, divide the string into 4 parts of length 3.Then swap the first part with the last part. Output the final string.

```
s="ABCDEFGHIJKL"

s1= s[0:3] #i=0,i<4
s2= s[3:6] #i=3,i<7
s3=s[6:9]
s4= s[9:12]

s4+s2+s3+s1
```

```
'JKLDEFGHIABC'
```

5. Choose variables of appropriate data type to store the information of the following table in a way that if someone inputs the EmployeeID, it will show all the information of that Employee

```
Employee = {

    1001 : {
      "EmployeeId" : 1001,
      "Ename" : "John",
      "DeptID" : 2,
      "Salary" : 4000,
      "Dname" : "IT",
      "Dlocation" : "New Delhi"
    },

   1002 : {
      "EmployeeId" : 1002
```

```
      "EmployeeId" : 1002,
      "Ename" : "Anna",
      "DeptID" : 1,
      "Salary" : 3500,
      "Dname" : "HR",
      "Dlocation" : "Mumbai"
    },

    1003 : {
      "EmployeeId" : 1003,
      "Ename" : "James",
      "DeptID" : 1,
      "Salary" : 2500,
      "Dname" : "HR",
      "Dlocation" : "Mumbai"
    },

   1004 : {
      "EmployeeId" : 1004,
      "Ename" : "David",
      "DeptID" : 2,
      "Salary" : 5000,
      "Dname" : "IT",
      "Dlocation" : "New Delhi"
    }

}

Employee [1003]
```

```
     {'DeptID': 1,
      'Dlocation': 'Mumbai',
      'Dname': 'HR',
      'EmployeeId': 1003,
      'Ename': 'James',
      'Salary': 2500}
```