Problem Statement 1:

Print today's date in DD-MM-YYYY format. Extract year from today's date and print on console.

Code:

```
import datetime
print("Today Date in the Format (DD/MM/YYYY).....")
today = datetime.date.today().strftime("%d/%m/%Y")
print(today)
today = datetime.date.today().strftime("%Y")
print("Extracting Year")
print(today)
```

Output:

```
Today Date in the Format (DD/MM/YYYY).....
29/03/2021
Extracting Year
2021
```

Problem Statement 2:

Take any input from user and convert it in tuple display converted output.

Code:

```
org_str=str(input("Enter Input :"))
print("The original string : " + str(org_str))
res = eval(org_str)
print("conversion of String to Tuple : " + str(res))
```

Output:

```
PS E:\BodhiTechnology\Python> python .\ProblemStmt_2.py
Enter Input :4,-8,2,-9,7
The original string : 4,-8,2,-9,7
conversion of String to Tuple : (4, -8, 2, -9, 7)
```

Problem Statement 3:

Perform CURD Operation using python & Mysql

1. Insert Student Information in table : i.e.name,branch,standard,roll_no

```
import MySQLdb
try:
   query="insert into student values('Ravi ','Mechanical','Second Year','21')"
   mycon=MySQLdb.connect(host="localhost" ,user="root", passwd="" ,database="StudentDb")
   cur=mycon.cursor()
   cur.execute(query)
   mycon.commit()
   print("Values Inserted in Table Successfully..!")
except:
   if mycon!=None:
      mycon.rollback()
      print("DB connection has some issue...Data not Inserted ")
finally:
   cur.close()
   print("Cursor close.....")
   mycon.close()
   print("Connection close....")
```

+ Options

Name	Branch	Standard	Roll_No
Ruchita	CSE	Final Year	19
Rupa	CSE	Final Year	20
Mahesh	E&TC	Second Yea	23
Deepak	Mechanical	Second Yea	22
Umesh	Mechanical	First Year	18
Ravi	Mechanical	Second Yea	21

2. Update student Information : i.e. Student branch

```
import MySQLdb
try:
   query="update student set branch='Mechanical' where branch='E&TC'"
   mycon=MySQLdb.connect(host="localhost" ,user="root", passwd="" ,database="StudentDb")
   cur=mycon.cursor()
   cur.execute(query)
   tdata=cur.fetchall()
   mycon.commit()
   print("Table Updated Successfully..!")
   for row in tdata:
      print("\nName:",row[0])
      print("Branch:",row[1])
      print("Standard:",row[2])
      print("Roll_No:",row[3])
except:
   if mycon!=None:
      mycon.rollback()
      print("\nDB connection has some issue...or Data not Updated ")
finally:
   cur.close()
   print("\nCursor close.....")
   mycon.close()
   print("\nConnection close....")
```

Output:

```
Mahesh  Mechanical  Second Yea  23
```

3. Delete Student row where branch is Mechanical

```
import MySQLdb
try:
   query="delete from student where branch='Mechanical'"
   mycon=MySQLdb.connect(host="localhost" ,user="root", passwd="" ,database="StudentDb")
   cur=mycon.cursor()
   cur.execute(query)
   tdata=cur.fetchall()
   mycon.commit()
   print("Rows Deleted Successfully..!")
   for row in tdata:
      print("\nName:",row[0])
```

```
        print("Branch:",row[1])
        print("Standard:",row[2])
        print("Roll_No:",row[3])
except:
    if mycon!=None:
        mycon.rollback()
        print("\nDB connection has some issue...Data not Inserted ")
finally:
    cur.close()
    print("\nCursor close.....")
    mycon.close()
    print("\nConnection close....")
```

Output:

+ Options

Name	Branch	Standard	Roll_No
Ruchita	CSE	Final Year	19
Rupa	CSE	Final Year	20
Mahesh	Mechanical	Second Yea	23
Deepak	Mechanical	Second Yea	22
Umesh	Mechanical	First Year	18
Ravi	Mechanical	Second Yea	21

+ Options

Name	Branch	Standard	Roll_No
Ruchita	CSE	Final Year	19
Rupa	CSE	Final Year	20

4. Show Student info on console

```
import MySQLdb
try:
    query="select * from student"
    mycon=MySQLdb.connect(host="localhost" ,user="root", passwd="" ,database="StudentDb")
    cur=mycon.cursor()
    cur.execute(query)
    tdata=cur.fetchall()
    print("Fetch all values from Table...!")
    for row in tdata:
        print("\nName:",row[0])
        print("Branch:",row[1])
        print("Standard:",row[2])
        print("Roll_No:",row[3])
except:
    if mycon!=None:
        mycon.rollback()
        print("\nDB connection has some issue...Data not Inserted ")
finally:
```

```
cur.close()
print("\nCursor close.....")
mycon.close()
print("\nConnection close....")
```

Output:

```
PS E:\BodhiTechnology\Assignment_3> python .\FetchValues.py
Values Fetched From table successfully.....!

Name: Ruchita
Branch: CSE
Standard: Final Year
Roll_No: 19

Name: Rupa
Branch: CSE
Standard: Final Year
Roll_No: 20

Cursor close.....

Connection close....
```

+ Options

Name	Branch	Standard	Roll_No
Ruchita	CSE	Final Year	19
Rupa	CSE	Final Year	20