```
create database person_info_lab_2
use [person info lab 2]
CREATE TABLE PERSON_LOG(
PLOGID
                    INT PRIMARY KEY,
PERSONAME
                   VARCHAR (250),
OPERATION
                   VARCHAR(50),
UPDATEDDATE
                   DATETIME
--1. Print message like - Error Occur that is: Divide by zero error encountered.
BEGIN TRY
SELECT 1/0;
END TRY
SELECT 'ERROROCCUR THAT IS::--'+ERROR MESSAGE() AS ERROR MSG
END CATCH
--2. Print error message in insert statement using Error_Message () function: Conversion
failed when
--converting datetime from character string.
BEGIN TRY
DECLARE @DATETIME VALUE VARCHAR(100) = '11/11/2011'
SELECT CONVERT(DATETIME,@DATETIME_VALUE,103) AS 'united kingdom time is::--'
END TRY
BEGIN CATCH
SELECT 'ERROROCCUR THAT IS::--'+ERROR MESSAGE() AS UK
END CATCH
--3. Create procedure which prints the error message that "The PLogID is already taken.
Try another
--one".
CREATE PROC PR_PRINT_MASSAGE
@PLOGID INT,
@PLOGNAME VARCHAR(50)
AS
BEGIN
      BEGIN TRY
             INSERT INTO PERSON_LOG VALUES (@PLOGID,@PLOGNAME,'INSERT',GETDATE())
      END TRY
      BEGIN CATCH
      PRINT 'THE PLOGID IS ALREADY TAKEN PLEASE TRY ANOTHER ONCE'
      END CATCH
END
EXEC PR PRINT MASSAGE 102, 'NISHANT'
SELECT * FROM PERSON LOG
```

```
--4. Create procedure that print the sum of two numbers: take both number as integer &
handle
--exception with all error functions if any one enters string value in numbers otherwise
print result.
       CREATE PROC ADDITION TWO NUMBERS
       @NUMBER2 INT,
       @NUMBER1 VARCHAR(2),
       @OUTPUT INT OUTPUT
       AS
       BEGIN
       BEGIN TRY
             SET @OUTPUT =@NUMBER1+@NUMBER2;
       END TRY
       BEGIN CATCH
             SELECT
                     ERROR NUMBER()
                                                 AS
                                                        [ERROR NUMBER],
                     ERROR MESSAGE()
                                                        [ERROR MESSAGE],
                                                 AS
                     ERROR STATE()
                                                 [ERROR STATE],
                                         AS
                     ERROR_SEVERITY()
                                                 [ERROR_SEVERITY],
                                         AS
                     ERROR LINE()
                                         AS
                                                 [ERROR LINE],
                     ERROR PROCEDURE() AS
                                                 [ERROR_PROCEDURE];
                     END CATCH
END
DECLARE @RESULT INT ;
EXEC ADDITION_TWO_NUMBERS 3, 'A', @RESULT OUTPUT;
PRINT @RESULT;
--5. Throw custom exception using stored procedure which accepts PLogID as input & that
throws
--Error like no plogid is available in database.
CREATE PROC FIND_PLOG_ID
@PLOGID INT
ĀS
BEGIN
       IF EXISTS(SELECT * FROM PERSON_LOG WHERE PLOGID=@PLOGID)
       PRINT('PLOG ID IS AVAILABLE IN DATABASE')
       ELSE
              THROW 50005, 'ERROR!!!! NO PLOGID WITH THIS ID' ,1
END
EXEC FIND PLOG ID 1011
--6. Create cursor with name per_cursor which takes PLogID & PersonName as variable and
produce
--combine output with PLogID & Person Name.
DECLARE
       @PLOG_ID INT,
       @PERSONNAME VARCHAR(250);
```

```
DECLARE PERSON CURSOR CURSOR
FOR SELECT
       PLOGID,
       PERSONAME
       FROM PERSON LOG;
      OPEN PERSON_CURSOR
       FETCH NEXT FROM PERSON CURSOR INTO
              @PLOG ID,
              @PERSONNAME;
              WHILE @@FETCH_STATUS=0
       BEGIN
              PRINT CAST(@PLOG ID AS VARCHAR) + '--->>' + @PERSONNAME;
              FETCH NEXT FROM PERSON_CURSOR INTO
                     @PLOG ID,
                     @PERSONNAME;
       END;
       CLOSE PERSON_CURSOR;
      DEALLOCATE PERSON_CURSOR;
--7. Use Table Student (Id, Rno, EnrollmentNo, Name, Branch, University) - Create cursor
that updates
--enrollment column as combination of branch & Roll No. like SOE22CE0001 and so on. (22
is admission year)
CREATE TABLE STUDENT (
              ID
                                          INT,
                                          INT,
              ENROLLMENTNO VARCHAR (100),
              NAME
                                   VARCHAR(50),
              BRANCH
                                   VARCHAR(50),
              UNIVERSITY
                                   VARCHAR(50)
              INSERT INTO STUDENT VALUES (1,001, 'COEE', 'MAHESH', 'P.HD', 'HARWARD')
              INSERT INTO STUDENT VALUES (2,002, 'COEM', 'RAMESH', 'DEGREE', 'DARSHAN')
              INSERT INTO STUDENT VALUES(3,003, 'COEC', 'SURESH', 'MASTERS', 'MARWADI')
              DECLARE @ROLL_NO
                                   INT,
                            @BRANCH
                                                 VARCHAR(250),
                            @ENROLLMENT VARCHAR(100);
              DECLARE STUDENT_CURSOR CURSOR
              FOR SELECT
                     RNO,
                     BRANCH
                     FROM STUDENT
              OPEN STUDENT_CURSOR
```

```
FETCH NEXT FROM STUDENT_CURSOR INTO

@ROLL_NO,
@BRANCH;

WHILE @@FETCH_STATUS=0
BEGIN

UPDATE STUDENT SET ENROLLMENTNO = ('SOE' +'22' +@BRANCH
+CAST(@ROLL_NO AS VARCHAR) ) WHERE RNO=@ROLL_NO;
FETCH NEXT FROM STUDENT_CURSOR INTO
@ROLL_NO,
@BRANCH;

END

CLOSE STUDENT_CURSOR;
DEALLOCATE STUDENT_CURSOR;

SELECT * FROM STUDENT
```