IT - 314
Software Engineering

Group - 14

Lab - 8

Ques1:

1) Equivalence Classes

   Day:

   D1: day between 1 and 28
   D2: day 29
   D3: day 30
   D4: day 31
   D5: day less than 1
   D6: day greater than 31

   Month:

   M1: month has 30 days
   M2: month has 28 or 29 days
   M3: month has 31 days
   M4: month less than 1
   M5: month greater than 12

   Year:

   Y1: Year is leap year between 1900 to 2015
   Y2: Year is not a leap year between 1900 to 2015
   Y3: Year <1900
   Y4: Year>2015

Day class:	Month class:	Year class:	Output
D1	M1	Y1	Previous Date

D1	M1	Y2	Previous Date
D1	M2	Y1	Previous Date
D1	M2	Y2	Previous Date
D1	M3	Y1	Previous Date
D1	M3	Y2	Previous Date
D2	M1	Y1	Previous Date
D2	M1	Y2	Previous Date
D2	M2	Y1	Previous Date
D2	M3	Y1	Previous Date
D2	M3	Y2	Previous Date
D3	M1	Y1	Previous Date
D3	M1	Y2	Previous Date
D3	M3	Y1	Previous Date
D3	M3	Y2	Previous Date
D4	M3	Y1	Previous Date
D4	M3	Y2	Previous Date

Rest of the combinations are **invalid**.

2) Boundary value analysis

   Boundary Tests:

   d>=29, m=2, y=not a leap year   invalid
   d=31,   m=doesn't have 31 days, y=any   invalid
   d>31,   m=any, y = any   invalid
   d<1,   m=any, y = any   invalid
   d=any, m=any, y<1900   invalid
   d=any, m=any, y>2015   invalid
   d=any, m<1, y=any   invalid
   d=any, m>12, y=any   invalid
   1<=d<=31,1<= m<=12, 1900<=y<=2015   previous date

Ques 2:

Screen prototype for the order-entry web page:

Item ID:
- ID1: from 00000 to 99999
- ID2: > 99999
- ID3: < 00000

Quantity:
- Q1: from 1 to 99
- Q2: > 99
- Q3: < 1

Cart total:
- C1: from 0 to 999.99
- C2: > 999.99
- C3: < 0

Item ID Class	Quantity Class	Cart total Class	Output
ID1	Q1	C1	Valid
ID2	ANY	ANY	Invalid
ID3	ANY	ANY	Invalid
ID1	Q2	ANY	Invalld
ID1	Q3	ANY	Invalid
ID1	Q1	C2	Invalid
ID1	Q1	C3	Invalid