1) DivideByZeroException

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace User
{
  class Program
  {
    static void Main(string[] args)
      int n, res, Cost;
      Console.WriteLine("Enter the Item Cost for n days");
       Cost = Convert.ToInt32(Console.ReadLine());
      do {
      Console.WriteLine("Enter total(n) days");
       n = Convert.ToInt32(Console.ReadLine());
        try
        {
           res = Cost / n;
           Console.WriteLine("Item Cost Per Day is " + res);
        }
        catch (DivideByZeroException ex)
        {
```

```
Console.WriteLine("DivideByZeroException");

}

while (n == 0);

{
}

Console.ReadLine();

}

}
```

2) Invalid Date Exception

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System. Globalization;
namespace InvalidDateExceptionEbox2
{
  class Program
  {
    static void Main(string[] args)
    {
      Console.WriteLine("Enter the start date(dd/MM/yyyy hh:mm:ss tt):");
      string start = Console.ReadLine();
      Console.WriteLine("Enter the end date(dd/MM/yyyy hh:mm:ss tt):");
      string end = Console.ReadLine();
      string format = "dd/MM/yyyy hh:mm:ss tt";
      try
        DateTime d1 = DateTime.ParseExact(start, format, CultureInfo.InvariantCulture);
        DateTime d2 = DateTime.ParseExact(end, format, CultureInfo.InvariantCulture);
        Console.WriteLine("Starting Date: " + d1.ToString("dd/MM/yyyy hh:mm:ss tt"));
        Console.WriteLine("Ending Date: " + d2.ToString("dd/MM/yyyy hh:mm:ss tt"));
      }
      catch (FormatException ex)
```

```
{
    Console.WriteLine("Invalid Date Format...");
}
}
```

3) Seat Booking

```
using System;
class SeatNotAvailableException :Exception
{
  public string Message;
  public SeatNotAvailableException (string Message) :base (Message)
    this.Message= Message;
  }
}
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
  class Program
  {
    static void Main(string[] args)
    {
      try
      {
        Console.WriteLine("Enter the booking details");
        string bookingId = Console.ReadLine();
        Console.WriteLine("Enter the seat number to book");
```

```
int bookingSeatNo = Convert.ToInt32(Console.ReadLine());
      if (bookingSeatNo < bookingId.Length)</pre>
      {
        if (bookingId[bookingSeatNo - 1] == '0')
        {
          Console.WriteLine("Booked successfully");
        }
        else
        {
          throw new SeatNotAvailableException("Seat booked already");
        }
      }
      else
      {
        throw new SeatNotAvailableException("Array index is out of range.");
      }
    }
    catch(SeatNotAvailableException e)
    {
      Console.WriteLine(e.Message);
    }
  }
}
```

4) Seat Not Available Exception

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
class SeatNotAvailableException :Exception
{
  public string Message;
  public SeatNotAvailableException (string Message) :base (Message)
  {
    this.Message= Message;
  }
}
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
class Program
  {
    static void Main(string[] args)
```

```
{
      int count = 0, i;
       Console.WriteLine("Enter the total number of seats");
       int size = Convert.ToInt32(Console.ReadLine());
       Console.WriteLine("Enter the number of seats to be booked:");
      int n = Convert.ToInt32(Console.ReadLine());
      int[] arr = new int[size];
      for (int j = 0; j < size; j++)
         arr[j] = 0;
      for (i = 0; i < n; i++)
      {
         Console.WriteLine("Enter the seat number " + (i + 1));
         int seat = Convert.ToInt32(Console.ReadLine());
         try
         {
           if (seat > size)
             throw new SeatNotAvailableException("Array index is out of range.");
           else
           {
             if (arr[seat - 1] == 0)
             {
               arr[seat - 1] = 1;
               Console.WriteLine("Seat booked");
             }
             else
                throw new SeatNotAvailableException("SeatNotAvailableException: Already
Booked");
```

```
}
      }
      catch (SeatNotAvailableException e)
      {
        Console.WriteLine(e.Message);
      }
    }
     if (!arr.Contains(1))
        Console.WriteLine("No seats booked");
      else
      {
        Console.WriteLine("The seats booked are:");
        for (i = 0; i < size; i++)
        {
          if (arr[i] == 1)
           {
             Console.WriteLine(i + 1);
          }
        }
      }
      Console.ReadLine();
 }
}
```

}

5) Mobile Number Validation

```
using System;
public class ContactDetail
{
  private long _mobile;
  private long _alternateMobile;
  private long _landLine;
  private string _email;
  private string _address;
  public ContactDetail()
  {
  }
  public ContactDetail(long mobile,long alternateMobile,long landLine,string email,string address)
  {
    this._mobile = mobile;
    this._alternateMobile = alternateMobile;
    this._landLine = landLine;
    this._email = email;
    this._address = address;
  }
  public long Mobile
  {
    get
    {
```

```
return this._mobile;
  }
  set
  {
    this._mobile = value;
  }
}
public long AlternateMobile
  get
  {
    return this._alternateMobile;
  }
  set
  {
    this._alternateMobile = value;
  }
}
public long LandLine
{
  get
  {
    return this._landLine;
```

```
}
  set
  {
    this._landLine = value;
  }
}
public string Email
{
  get
  {
    return this._email;
  }
  set
  {
    this._email = value;
  }
}
public string Address
  get
  {
```

```
return this._address;
    }
    set
    {
      this._address = value;
    }
  }
  public override String ToString()
    Console.WriteLine("Contact Details:");
    return "Mobile: " + this.Mobile +"\n" + "Alternate Mobile: " + AlternateMobile +"\n" + "LandLine:
" + LandLine +"\n"+ "Email Id: " + Email +"\n"+ "Address: " + Address+"\n";
 }
}
using System;
public class DuplicateNumberException:Exception
{
  public string message;
  public DuplicateNumberException(string message) : base(message)
  {
    this.message = message;
  }
}
```

```
using System;
public class ContactDetailBO
  public void Validate(ContactDetail cd)
  {
    if (cd.Mobile != cd.AlternateMobile)
    {
      Console.WriteLine(cd.ToString());
    }
    else
      throw new DuplicateNumberException("Exception: Same Mobile no and Alternate Mobile
no.");
    }
  }
}
using System;
public class Program
{
  public static void Main()
  {
    ContactDetail cd = new ContactDetail();
    Console.WriteLine("Enter the mobile number:");
    cd.Mobile = Convert.ToInt64(Console.ReadLine());
    Console.WriteLine("Enter the alternate mobile number:");
```

```
cd.AlternateMobile = Convert.ToInt64(Console.ReadLine());
  Console.WriteLine("Enter the landline number:");
  cd.LandLine = Convert.ToInt64(Console.ReadLine());
  Console.WriteLine("Enter the email id:");
  cd.Email = Console.ReadLine();
  Console.WriteLine("Enter the address:");
  cd.Address = Console.ReadLine();
  ContactDetailBO cd1 = new ContactDetailBO();
   try
    cd1.Validate(cd);
  }
  catch(DuplicateNumberException e)
  {
    Console.WriteLine(e.message);
  }
  Console.ReadLine();
}
```

}