## Practical - 7

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In a department of a college, there can be maximum 50 employees, with Employee IDs ranging from "CS001" to "CS050". There are three departments in college having codes "CS", "IT" and "EC". Create a class Employee having data members ID and Name. Write getdata method to get data. Perform user defined exception handling to handle above constraints.

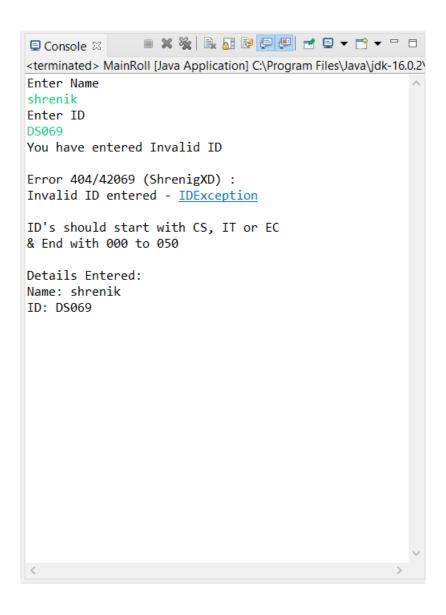
```
import java.util.Scanner;
class Employee
{
      String name, ID;
      Employee(String name, String ID)
             this.name=name;
             this.ID=ID;
      void Display()
      {
             System.out.println("Details Entered:");
             System.out.println("Name: "+name+"\nID: "+ID);
      }
}
class IDException extends Exception
{
      public IDException(String str)
             System.out.println("You have entered "+str);
}
public class MainRoll
      public static void main(String[] args)
             Scanner \underline{s} = \mathbf{new} Scanner (System.in);
             System.out.println("Enter Name");
             String name = s.next();
             System.out.println("Enter ID");
             String ID = s.next();
```

```
Employee E = new Employee(name,ID);
             char ch[] = ID.toCharArray();
             int \underline{n} = ch.length;
             try
             {
                    if((ch[0]=='C' && ch[1]=='S')||(ch[0]=='I' &&
ch[1]=='T')||(ch[0]=='E' && ch[1]=='C'))
                           if((ch[4]>=48 && ch[4]<=57)&&(ch[4]!=48 || ch[3]!=48))
                           {
                                  if((ch[3]>=48 && ch[3]<=52)||(ch[3]==53 &&
ch[4] = 48))
                                  {
                                         if(ch[2]==48)
                                         {
                                               System.out.println("Valid ID\n");
                                         }
                                         else
                                               throw new IDException("Invalid ID");
                                  }
                                  else
                                         throw new IDException("Invalid ID");
                           else
                                  throw new IDException("Invalid ID");
                    }
                    else
                           throw new IDException("Invalid ID");
             catch(IDException e)
             {
                    System.out.println("\nError 404/42069 (ShrenigXD) : \nInvalid
ID entered - "+e+"\n");
                    System.out.println("ID's should start with CS, IT or EC \n&
End with 000 to 050\n");
             E.Display();
      }
}
```

Output 1: When Correct Inputs are given (No Error/Exception occurred)



## Output 2: When Incorrect Inputs are given (Error/Exception occurred)



## This practical was performed on Eclipse IDE

