Q1

**class** InvalidNameException **extends** Exception {

**public** InvalidNameException(String message) {

**super**(message);

    }

}

**class** Employee {

**private** String firstName;

**private** String lastName;

**public** Employee(String firstName, String lastName) **throws** InvalidNameException {

**if** (firstName == **null** || firstName.trim().isEmpty() || lastName == **null** || lastName.trim().isEmpty()) {

**throw** **new** InvalidNameException("First name and last name cannot be blank.");

        }

**this**.firstName = firstName;

**this**.lastName = lastName;

    }

**public** String getFullName() {

**return** firstName + " " + lastName;

    }

**public** **static** **void** main(String[] args) {

**try** {

            Employee emp = **new** Employee("Swarnim", "Mathur-");

            System.***out***.println("Employee full name: " + emp.getFullName());

        } **catch** (InvalidNameException e) {

            System.***out***.println(e.getMessage());

        }

**try** {

            Employee emp2 = **new** Employee("", "Smith");

        } **catch** (InvalidNameException e) {

            System.***out***.println(e.getMessage());

        }

    }

}

 Q2

**class** InvalidAgeException **extends** Exception {

**public** InvalidAgeException(String message) {

**super**(message);

    }

}

**class** Person {

**private** **int** age;

**public** Person(**int** age) **throws** InvalidAgeException {

**if** (age <= 15) {

**throw** **new** InvalidAgeException("Age must be above 15.");

        }

**this**.age = age;

    }

**public** **int** getAge() {

**return** age;

    }

**public** **static** **void** main(String[] args) {

**try** {

            Person person = **new** Person(20);

            System.***out***.println("Person's age: " + person.getAge());

        } **catch** (InvalidAgeException e) {

            System.***out***.println(e.getMessage());

        }

**try** {

            Person person2 = **new** Person(10);

        } **catch** (InvalidAgeException e) {

            System.***out***.println(e.getMessage());

        }

    }

}

Q3

**package** com.demo.exception;

**class** EmployeeException **extends** Exception {

**public** EmployeeException(String message) {

**super**(message);

    }

}

**class** Employee {

**private** **double** salary;

**public** Employee(**double** salary) **throws** EmployeeException {

**if** (salary < 3000) {

**throw** **new** EmployeeException("Salary cannot be below 3000.");

        }

**this**.salary = salary;

    }

**public** **double** getSalary() {

**return** salary;

    }

**public** **static** **void** main(String[] args) {

**try** {

            Employee emp = **new** Employee(3500);

            System.***out***.println("Employee's salary: " + emp.getSalary());

        } **catch** (EmployeeException e) {

            System.***out***.println(e.getMessage());

        }

**try** {

            Employee emp2 = **new** Employee(2500);

        } **catch** (EmployeeException e) {

            System.***out***.println(e.getMessage());

        }

    }

}

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