Exception Handling!

```java
import java.util.Scanner;

2 usages
class ExceptionMsg extends Exception{
    1 usage
    ExceptionMsg(String s){
        super(s);
    }
}

public class ExceptionHandling {
    public static void main(String[] args) throws ExceptionMsg {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter YOur Age: ");
        int age = s.nextInt();
        if(age<0){
            throw new ExceptionMsg( s: "Age cannot be negative!!");
        }
    }
}
```

Output:

```
Enter YOur Age:
-1
Exception in thread "main" ExceptionMsg: Age cannot be negative!!
    at ExceptionHandling.main(ExceptionHandling.java:15)

Process finished with exit code 1
```

```java
import java.io.Console;
import java.util.Scanner;

3 usages
class PassWordException extends Exception{
    1 usage
    PassWordException(String s){
        super(s);
    }

    public static void main(String[] args) throws PassWordException {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the Password: ");
        Console console = System.console();
        char[] password = System.console().readPassword();
        System.out.println("Confirm Password: ");
        char[] confirmPass = System.console().readPassword();
        if(password.toString() != confirmPass.toString()){
            throw new PassWordException("Password is Incorrect :(\nPlease Try Again!");
        }
        else{
            System.out.println("Thank You User!!");
        }
    }
}

public class ExceptionHandling {
    public static void main(String[] args) throws PassWordException {
        System.out.println("present");
    }
}
```

Output:

```
Enter the Password:

Confirm Password:

Exception in thread "main" PassWordException: Password is Incorrect :(
Please Try Again!
        at PassWordException.main(ExceptionHandling.java:42)
```

Q3. Write a Program throw User Defined exception string mismatch exception.

```java
import java.util.Scanner;
2 usages
class StringMismatchException extends Exception{
    1 usage
    StringMismatchException(String s){
        super(s);
    }
}
public class ExceptionHandling {
    public static void main(String[] args) throws StringMismatchException {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the First String: ");
        String s1 = s.nextLine();
        System.out.println("Enter the Second String: ");
        String s2 = s.nextLine();
        if (!s1.contentEquals(s2)){
            throw new StringMismatchException("String is Mismatched!");
        }
        else{
            System.out.println("YOu enetered the Same String");
        }
    }
}
```

Output:

```
Enter the First String:
Harsh MOreshwar Kalws
Enter the Second String:
Harsh Moreshwar Kale
Exception in thread "main" StringMismatchException: String is Mismatched!
    at ExceptionHandling.main(ExceptionHandling.java:66)
```

Q4. Write a Program to throw User defined exception as "Invalid Age". If age entered by user is less than 18.

```
import java.util.Scanner;
2 usages
class AgeException extends Exception{
    1 usage
    AgeException(String s){
        super(s);
    }
}
public class ExceptionHandling {
    public static void main(String[] args) throws AgeException{
        Scanner s = new Scanner(System.in);
        System.out.print("Enter Your Age: ");
        int Age = s.nextInt();
        if (Age < 18){
            throw new AgeException("Invalid Age!!");
        }
        else{
            System.out.println("Thank you for entering you age!!");
        }
    }
}
```

Output:

```
Enter Your Age: 7
Exception in thread "main" AgeException: Invalid Age!!
    at ExceptionHandling.main(ExceptionHandling.java:84)
```

Q5. Define Exception NO match Exception that is throw when string is not equal to MSBTE.

```java
import java.util.Scanner;
2 usages
class StringNotEqual extends Exception{
    1 usage
    StringNotEqual(String s){
        super(s);
    }
}
public class ExceptionHandling {
    public static void main(String[] args) throws StringNotEqual{
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the String which is equal to MSBTE");
        String str = s.nextLine();
        if (!str.contains("msbte")){
            throw new StringNotEqual( s: "String is not equal to MSBTE or msbte!!");
        }
        else{
            System.out.println("Thank you for entering you MSBTE!!");
        }
    }
}
```

Output:

```
Enter the String which is equal to MSBTE
Chotta Bheem
Exception in thread "main" StringNotEqual: String is not equal to MSBTE or msbte!!
    at ExceptionHandling.main(ExceptionHandling.java:84)

Process finished with exit code 1
```