**JAVA Assessment :**

**1.** Write a java program to create and throw custom exceptions?

Program:

class Custom extends Exception{

private int detail;

Custom(int a){

detail=a;

}

//creating custom exception

public String toString(){

return "Custom Exception created ("+detail+")";

}

}

public class CustomException{

static void occureException(int a)throws Custom{

if(a>5)

throw new Custom(a);//anonymous object, throw the custom exception.

System.*out*.println("a is less the five, Exception not accrued");

}

public static void main(String args[]){

try{

*occureException*(4);

*occureException*(6);//6 is greater than 5.exception called.

}catch(Custom e){

System.*out*.println("custom exception caught"+e);

}

}

}

**Output :**

A is less then five, exception not accrued

custom exception caught Custom Exception created (6)

**2.**How do we reverse the string?

Program:

import java.util.Scanner;

public class ReverseString {

public static void main(String args[]){

String s;

Scanner sc=new Scanner(System.*in*);

System.*out*.println("Enter the String :");

s=sc.nextLine();

System.*out*.println("your string is :"+s);

System.*out*.println("Reverse string is :");

for(int i=s.length();i>0;i--){

System.*out*.print(s.charAt(i-1));}

}

}

**3.**Write the program that detects duplicate characters in a string ?

Program :

public class Duplicate\_Char {

public static void main(String[] args) {

String s="codoid java assesment";

char[] s1=s.toCharArray();

System.*out*.println("The duplicate charecters are : ");

for(int i=0;i<s1.length;i++){

for(int j=i+1;j<s1.length;j++){

if(s1[i]==s1[j])

System.*out*.print(s1[j]);

}

}

}

}