1BM19CS079

LIKITHA B

WEEK-10(OOJ-LAB-PROGRAMS)

PROGRAM-1

1. Write a program to demonstrate generics with multiple object parameters.

CODE-

```
class Generics<T, U,S>
{
  T obj1;
  U obj2;
  S obj3;
  Generics(T obj1, U obj2,S obj3)
  {
    this.obj1 = obj1;
    this.obj2 = obj2;
    this.obj3 = obj3;
  }
  public void print()
  {
    System.out.println(obj1);
    System.out.println(obj2);
    System.out.println(obj3);
```

```
}
}
class Genericsmain
{
    public static void main (String[] args)
    {
        Generics < String, Integer, String > obj =
            new Generics < String, Integer, String > ("WEEK", 7,"LAB-PROGRAM");
        obj.print();
    }
}
```

OUTPUT-

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\DELL\OneDrive\Desktop\JAVA PROGRAMS> & 'c:\Users\DELL\.vscode\extensions\vscjava.vscode-java-debug-8.29.8\scripts\launcher.bat' 'C:\Program Files\Java\j dk-11.0.9\bin\java.exe' '-Dfile.encoding=UTF-8' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\f818b41bb1e885e97934846a75da7473\redhat.java\jdt_ws\J AVA PROGRAMS_95463e9e\bin' 'Genericsmain'

MEEK
7
LAB-PROGRAM
PS C:\Users\DELL\OneDrive\Desktop\JAVA PROGRAMS> [
```

PROGRAM-2

2. Write a program that demonstrates handling of exceptions in inheritance tree. Create a base class

called "Father" and derived class called "Son" which extends the base class. In Father class,

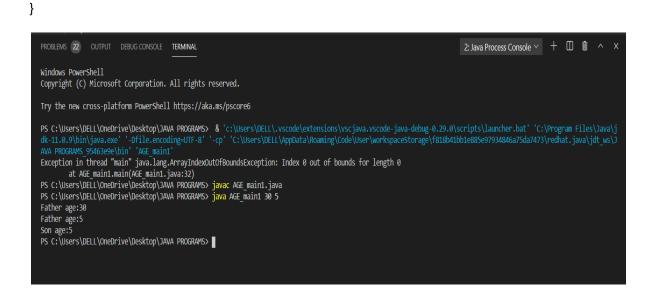
implement a constructor which takes the age and throws the exception Wrong Age() when the input

age=father's age.

CODE-

```
class WrongAge extends Exception
{
        public String toString()
        {
                return "Please enter the right age:"+"Son's age > Father's age";
        }
}
class Father
{
        int age;
        Father(int age1)
        {
                age=age1;
                System.out.println("Father age:"+age);
       }
}
```

```
class Son extends Father
{
        Son(int age1)
        {
                super(age1);
               System.out.println("Son age:"+age);
       }
}
class AGE_main1
{
        public static void main(String args[]) throws WrongAge
       {
                int i=args.length;
               int j=Integer.parseInt(args[0]);
               int k=Integer.parseInt(args[1]);
               if(i<=0 | | k>j)
                {
                        throw new WrongAge();
                }
                else
                {
                        Father f=new Father(j);
                        Son s=new Son(k);
                }
```



}