```
import java.lang.*;
import java.util.Scanner;
class WrongAge extends Exception
{
private String detail;
WrongAge(String a)
{
detail=a;
}
public String toString()
return("WrongAge Exception ["+detail+ "]");
}
}
class Father {
int f_age;
Father(int a) throws Exception
{
f_age=a;
if(f_age<0)
{
throw new WrongAge("Father's age is negative");
}
}
```

```
void display()
{
System.out.println("Father's age: "+f_age);
}
}
class Son extends Father
{
int s_age;
Son(int ag,int f) throws Exception
{
super(f);
s_age=ag;
if(s_age<0)
{
throw new WrongAge("Son's age is negative");
}
if(s_age>=f_age)
{
throw new WrongAge("Son's age greater than father's age");
}
}
void display()
{
System.out.println("Son's age: "+s_age+" Father's age: "+f_age);
}
}
```

```
{
public static void main(String args[]) throws Exception
{
int ch,f,s;
Scanner sc= new Scanner(System.in);
try
{
while(true){
System.out.println("1.Check Father\n2.Check Son and Father's age\n3.Exit\nEnter your choice");
ch=sc.nextInt();
switch(ch)
{
case 1:
System.out.println("Enter father's age");
f=sc.nextInt();
Father f1=new Father(f);
f1.display();
break;
case 2:
System.out.println("Enter son and father's age");
s=sc.nextInt();
f=sc.nextInt();
Son s1=new Son(s,f);
s1.display();
break;
case 3:
System.exit(0);
default:
System.out.println("Invalid choice");
```

```
}
}
catch(WrongAge e)
{
System.out.println("Exception: "+e);
}
}
```

OUTPUT

```
1.Check Father
2.Check Son and Father's age
3.Exit
Enter your choice
1
Enter father's age
-3
Exception: WrongAge Exception [Father's age is negative]
```

```
1.Check Father
2.Check Son and Father's age
3.Exit
Enter your choice
2
Enter son and father's age
7
6
Exception: WrongAge Exception [Son's age greater than father's age]
```