```
package org.example1.dac;
class Person{
       String name;
       int age;
       public Person(){
               this.name = "Name";
               this.age = 18;
       }
       public Person(String name , int age) {
               this.name = name;
          this.age = age;
       }
       public String getName() {
               return this.name;
       }
       public void setName(String name) {
               this.name = name;
       }
       public int getAge() {
               return this.age;
       }
       public void setAge(int age) {
               this.age = age;
```

```
}
        public void printrec() {
                System.out.println(" name " + this.getName());
                System.out.println("age :" + this.getAge());
        }
}
class Student extends Person{
        int prn;
        String subject;
        float marks;
  public Student() {
        }
        public Student(String name , int age , int prn , String subject , float marks )
        {
                super(name,age);
                this.prn = 4034;
                this.subject = "cdac";
                this.marks = 21.03f;
        }
        public int getPrn() {
                return prn;
        }
```

```
public void setPrn(int prn) {
        this.prn = prn;
}
public String getSubject() {
        return subject;
}
public void setSubject(String subject) {
        this.subject = subject;
}
public float getMarks() {
        return this.marks;
}
public void setMarks(float marks) {
        this.marks = marks;
}
public void printrec() {
        System.out.println("name:" + this.getName());
        System.out.println("age :" + this.getAge());
        System.out.println("marks:" + this.getMarks());
        System.out.println("prn :" + this.getPrn());
        System.out.println("subject :" + this.getSubject());
}
```

public class Program {

}

}

```
public static void main(String[] args) {
    Student st = new Student();
    //Student st1 = (Student)new Person(); //"main" java.lang.ClassCastException:
    Person p = null;
    p = new Student(); // upcasting
    Person p2 = st;
    p2.setName("Arvind");
    p2.setAge(56);
    p2.printrec(); // call goes to print record in sub class
```

```
File Edit Source Refactor Navigate Search Project Run Window Help

| Project Run Window Help

| Navigate Search Project Run Window Help

| Navigate Search Project Run Window Help

| Navigate Search Project Run Window Help

| Project Run Window Help

                                                                                                                                                                                                                                             置 Problems 単 wadoc 版 Dectaration © Console × ゆ Debug
- terminated Program (19) was Application (C)Program Files/Java/jdk-20/bin/javaw.exe (12-Sept-2024, 12-10-31 pm - 12-10-31 pm) [pid: 47132]
- name : Arvind
- age : 56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          = X % | % & B & F = 1
      Assignment4

Assignment6

Association

Cdac_day7

Cdac_ooss_javaprograms

Classworkday10

a. RE System Library (JavaSE-20)
                                                                                                             44
                                                                                                                                                public Student() { marks :0.0
prn :0
                                                                                                                                                                                                                                                                    subject :null
                                                                                                               49
50
                                                                                                               51°
52
                                                                                                                                                  public Student (Stri
                                                                                                                                                                            this.subject = "cdac";
this.marks = 21.03f;
                                                                                                               56
57
58
59
                                                                                                                60
                                                                                                                                                 public int getPrn() {
                                                                                                               61
62
                                                                                                                                                                            return prn;
                                                                                                                64
                                                                                                                                                  public void setPrn(int prn) {
                                                                                                                                                                              this.prn = prn;
                                                                                                               66
67
                                                                                                                68•
                                                                                                                                                  public String getSubject() {
                                                                                                               69
70
                                                                                                                                                                            return subject;
         26°C
Partly sunny
                                                                                                                                                                                                                                      🔈 🖬 👊 🧿 📮 🕲 📦 🐯 🛂 📵 🥩 🖨
```

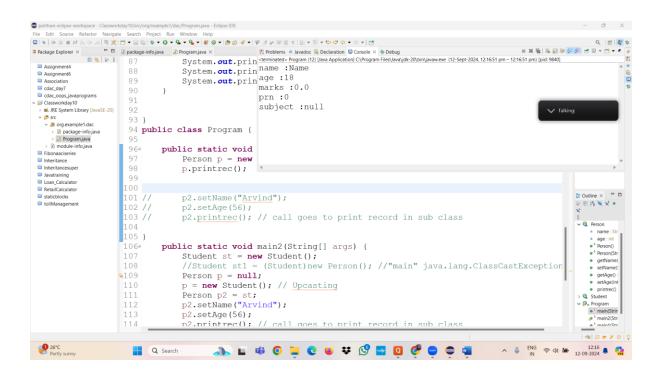
```
package org.example1.dac;
class Person{
       String name;
       int age;
       public Person(){
               this.name = "Name";
               this.age = 18;
       }
       public Person(String name , int age) {
               this.name = name;
          this.age = age;
       }
       public String getName() {
               return this.name;
       }
       public void setName(String name) {
               this.name = name;
       }
       public int getAge() {
               return this.age;
       }
       public void setAge(int age) {
               this.age = age;
```

```
}
        public void printrec() {
                System.out.println(" name " + this.getName());
                System.out.println("age :" + this.getAge());
        }
}
class Student extends Person{
        int prn;
        String subject;
        float marks;
  public Student() {
        }
        public Student(String name , int age , int prn , String subject , float marks )
        {
                super(name,age);
                this.prn = 4034;
                this.subject = "cdac";
                this.marks = 21.03f;
        }
        public int getPrn() {
                return prn;
        }
```

```
public void setPrn(int prn) {
        this.prn = prn;
}
public String getSubject() {
        return subject;
}
public void setSubject(String subject) {
        this.subject = subject;
}
public float getMarks() {
        return this.marks;
}
public void setMarks(float marks) {
        this.marks = marks;
}
public void printrec() {
        System.out.println("name:" + this.getName());
        System.out.println("age :" + this.getAge());
        System.out.println("marks:" + this.getMarks());
        System.out.println("prn :" + this.getPrn());
        System.out.println("subject :" + this.getSubject());
}
```

public class Program {

}



```
package org.example1.dac;
class Person{
              String name;
              int age;
               public Person(){
               this.name = "Name";
               this.age = 18;
              }
               public Person(String name , int age) {
               this.name = name;
                 this.age = age;
              }
              public String getName() {
               return this.name;
              }
               public void setName(String name) {
               this.name = name;
              }
               public int getAge() {
               return this.age;
```

}

```
public void setAge(int age) {
                this.age = age;
               }
               public void printrec() {
                System.out.println(" name " + this.getName());
                System.out.println("age :" + this.getAge());
               }
}
class Student extends Person{
               int prn;
               String subject;
               float marks;
  public Student() {
               }
               public Student(String name , int age , int prn , String subject , float marks )
                super(name,age);
                this.prn = 4034;
                this.subject = "cdac";
                this.marks = 21.03f;
               }
```

```
public int getPrn() {
 return prn;
}
public void setPrn(int prn) {
 this.prn = prn;
}
public String getSubject() {
 return subject;
}
public void setSubject(String subject) {
 this.subject = subject;
}
public float getMarks() {
 return this.marks;
}
public void setMarks(float marks) {
 this.marks = marks;
}
public void printrec() {
 System.out.println("name:" + this.getName());
 System.out.println("age :" + this.getAge());
 System.out.println("marks:" + this.getMarks());
 System.out.println("prn :" + this.getPrn());
 System.out.println("subject :" + this.getSubject());
}
```

```
}
public class Program {
               public static void main(String[] args) {
                Student <u>s</u> = new Student();
                Person p = new Person();
                //Person p = new Student(); //upcsting
                Student s1 = (Student) p;
                s1.setName("Chiku");
                s1.setAge(14);
                s1.setPrn(80);
                s1.setSubject(" maths");
                s1.setMarks(88.36f);
                s1.printrec();
                // class exception means value accepted but exception arise.
                p.printrec();
}
}
```

```
- a ×
                                                                                                                           IP Package Explorer ×

IP Assignment4

Assignment6

Association

Cdac_day7

Cdac_copos_javaprograms

Signary Cdac_copos_javaprograms

Cdac_copos_javaprograms

Cdac_copos_javaprograms

Cdac_copos_javaprograms

Cdac_copos_javaprograms

Cdac_copos_javaprograms

Cdac_copos_javaprograms

Cdac_copos_javaprograms

Cdac_day

Cdac_copos_javaprograms

Cdac_day

Program_java

Program_java

Production_java

Fibonacciseries

Inheritance

Inhe
                                                                              67
                                                                           680
                                                                                                     public String getSu
                                                                                                  return subject;
                                                                                69
70
                                                                                72°
73
                                                                                                      public void setSubj
                                                                                                                          this.subject =
                                                                                74
75
                                                                                                       }
                                                                                76°
77
                                                                                                       public float getMar =
                                                                                                                          return this.marks;
                                                                                                       }
                                                                                79
80∘
                                                                                                                                                                                                                                                                                                                                                                                                                                                               public void setMarks(float marks) {
                                                                                81
                                                                                                                            this.marks = marks;
                                                                                                         }
                                                                                82
                                                                                83
                                                                                84⊖
                                                                                                          public void printrec() {
                                                                                                                           lic void printrec() {
   System.out.println("name :" + this.getName());
   System.out.println("age :" + this.getAge());
   System.out.println("marks :" + this.getMarks());
   System.out.println("prn :" + this.getPrn());
   System.out.println("subject :" + this.getSubject());
                                                                                85
                                                                                87
88
                                                                                89
90
                                                                                 91
                                                                                 92
       26°C
Partly sunny
                                                                                                                                                     Q Search
```