JAVA ASSIGNMENT

ON

PATTERN

PROGRAMS

Submitted by

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pattern1:

```
*  *  *

*     *

*  *  *
```
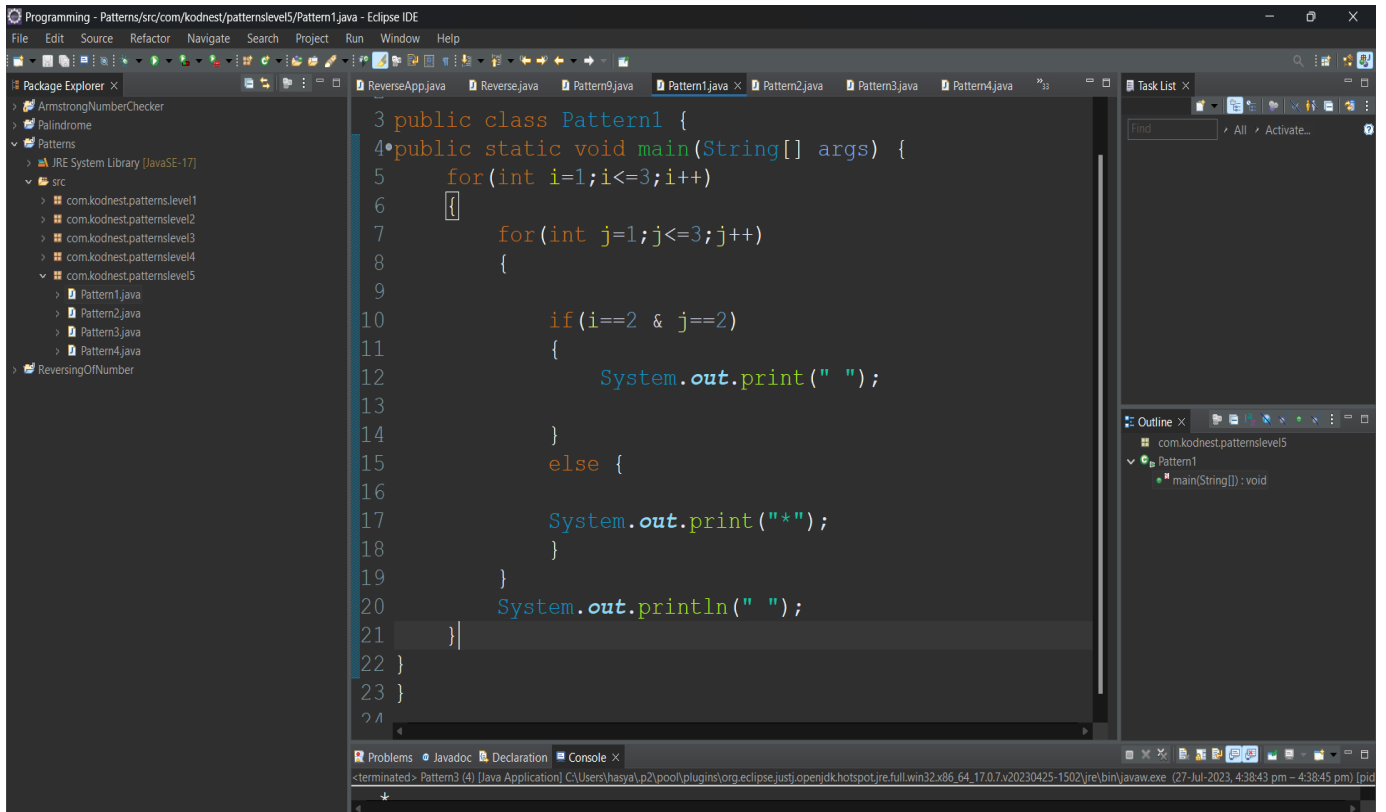
Program:

```java
public class Pattern1 {
public static void main(String[] args) {
    for(int i=1;i<=3;i++)
    {
      for(int j=1;j<=3;j++)
        {
            if(i==2 & j==2)
              {
              System.out.print(" ");
              }
            else {
            System.out.print("*");
            }
}
        System.out.println(" ");
    }
```

```
}

}
```


Output:

```
*   *   *

*       *

*   *   *
```

Pattern2:

```
* * * * *
*       *
*       *
*       *
* * * * *
```
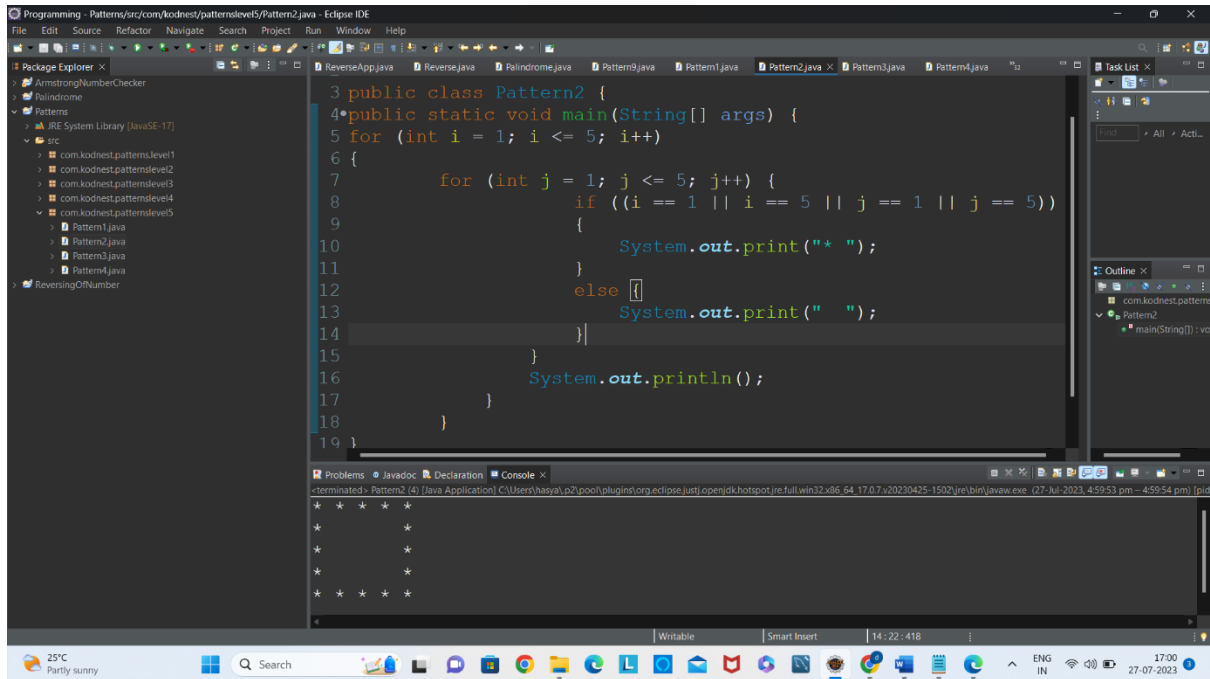
Program:

```java
public class Pattern2 {
public static void main(String[] args) {
for (int i = 1; i <= 5; i++)
{
 for (int j = 1; j <= 5; j++) {
            if ((i == 1 || i == 5 || j == 1 || j == 5))
            {
                System.out.print("* ");
            }
            else {
                System.out.print("  ");
            }
        }
        System.out.println();
    }
```
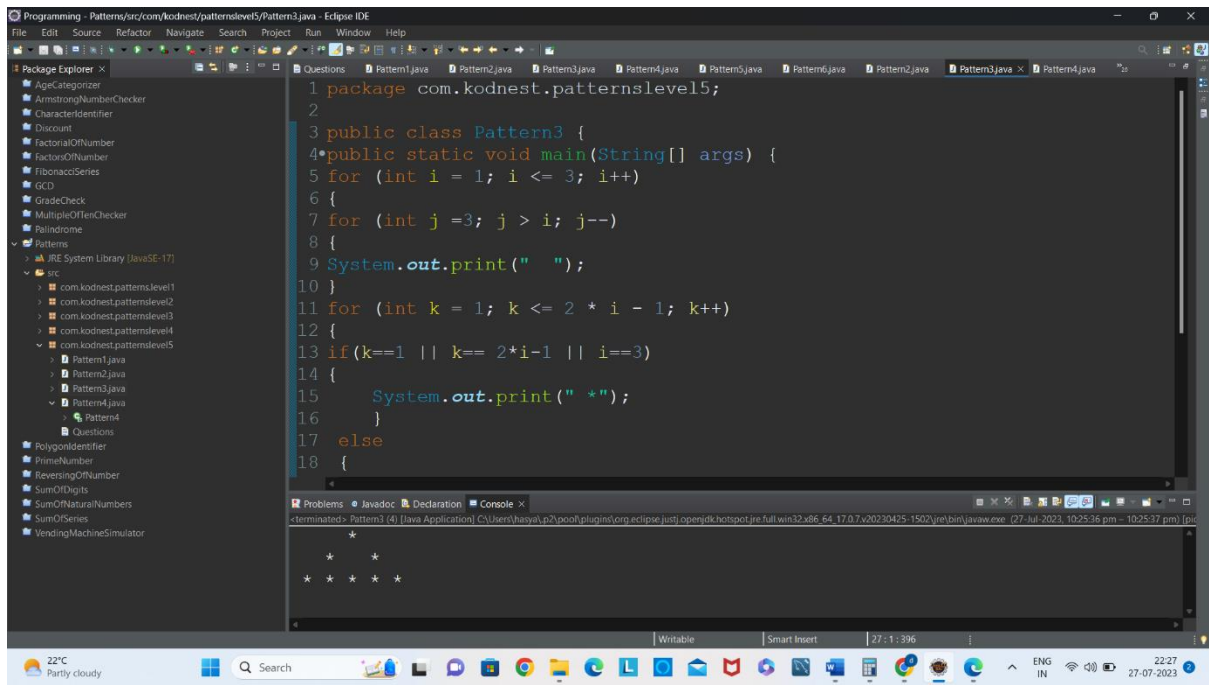
```
        }

}
```


Output:

* * * * *

*   *

*   *

*   *

* * * * *

Pattern3:

```
    *
  *   *
* * * * *
```

Program:

```java
public class Pattern3 {
public static void main(String[] args) {
for (int i = 1; i <= 3; i++)
{
for (int j =3; j > i; j--)
{
System.out.print("  ");
}
for (int k = 1; k <= 2 * i - 1; k++)
{
if(k==1 || k== 2*i-1 || i==3)
{
System.out.print(" *");
}
 else
 {
```

```java
System.out.print("  ");

 }

}

System.out.println();

}

}

}
```


Output:

```
    *
  *   *
* * * * *
```

Pattern4:

```
     *
   *   *
* * * * *
*       *
*       *
*       *
* * * * *
```

Program:

```java
public class Pattern4 {
public static void main(String[] args) {
for (int i = 1; i <= 3; i++)
{
   for (int j =3; j > i; j--)
{
System.out.print("  ");
 }
for (int k = 1; k <= 2 * i - 1; k++)
 {
   if(k==1 || k== 2*i-1 || i==3)
  {
    System.out.print("* ");
   }
    else {
      System.out.print("  ");
}
}
}
```

```java
System.out.println();

}

for (int i = 1; i <= 5; i++)

{

    for (int j = 1; j <= 5; j++)

    {

if ((i == 1 || i == 5 || j == 1 || j == 5))

{

    System.out.print("* ");

}

else {

System.out.print("  ");

}

}

System.out.println();

}

}

}
```

Output:

```
        *
     *     *
  *  *  *  *  *
  *           *
  *           *
  *           *
  *  *  *  *  *
```