**1] Pattern 1**

**package** PatternAssignment2;

/\*

1\*\*\*\*

12\*\*\*

123\*\*

1234\*

12345

\*/

**public** **class** Assign2Pattern1

{

**public** **static** **void** main(String[] args)

{

**for**(**int** r=1;r<=5;r++)

{

**for**(**int** c=1;c<=r;c++)

{

System.***out***.print(c);

}

**for**(**int** s=4;s>=r;s-- )

{

System.***out***.print("\*");

}

System.***out***.println();

}

}

}

**Output:-**

1\*\*\*\*

12\*\*\*

123\*\*

1234\*

12345

**2] Pattern 2**

**package** PatternAssignment2;

/\*

1

212

32123

4321234

32123

212

1

\*/

**public** **class** Assign2Pattern2

{

**public** **static** **void** main(String[] args)

{

**for**(**int** r=1;r<=4;r++)

{

**for**(**int** s=3;s>=r;s--)

{

System.***out***.print(" ");

}

**for**(**int** c=r;c>=1;c--)

{

System.***out***.print(c);

}

**for**(**int** l=2;l<=r;l++)

{

System.***out***.print(l);

}

System.***out***.println();

}

**for**(**int** r=3;r>=1;r--)

{

**for**(**int** s=3;s>=r;s--)

{

System.***out***.print(" ");

}

**for**(**int** c=r;c>=1;c--)

{

System.***out***.print(c);

}

**for**(**int** l=2;l<=r;l++)

{

System.***out***.print(l);

}

System.***out***.println();

}

}

}

**Output:-**

1

212

32123

4321234

32123

212

1

**3] Pattern 3**

**package** PatternAssignment2;

/\* 1

12

123

1234

12345

1234

123

12

1. \*/

**public** **class** Assign2Pattern3

{

**public** **static** **void** main(String[] args)

{

**for**(**int** r=1;r<=5;r++)

{

**for**(**int** c=1;c<=r;c++)

{

System.***out***.print(c);

}

System.***out***.println();

}

**for**(**int** r=4;r>=1;r--)

{

**for**(**int** c=1;c<=r;c++)

{

System.***out***.print(c);

}

System.***out***.println();

}

}

}

**Output:-**

1

12

123

1234

12345

1234

123

12

1

**4] Pattern 4**

**package** PatternAssignment2;

/\*

12345

1234

123

12

1

1

12

123

1234

12345

\*/

**public** **class** Assign2Pattern4

{

**public** **static** **void** main(String[] args)

{

**for**(**int** r=5;r>=1;r--)

{

**for**(**int** c=1;c<=r;c++)

{

System.***out***.print(c);

}

System.***out***.println();

}

System.***out***.println();

**for**(**int** r=1;r<=5;r++)

{

**for**(**int** c=1;c<=r;c++)

{

System.***out***.print(c);

}

System.***out***.println();

}

}

}

**Output:-**

12345

1234

123

12

1

1

12

123

1234

12345