1st

```
package Day3;


public class Factorial {


	public static int fact(int n)
	{
		int f;
		if(n==1 || n==0)
			return 1;
		f=n*fact(n-1);
		return f;


	}
	public static void main(String[] args) {
		System.out.println(fact(4));
	}
}
```

2nd

```
package Day3;


public class PatternFibonacii {
```

```
	public static void fibPattern()
	{
		int a=0,b=1,c;
		for(int i=1;i<=3;i++)
		{
			for(int j=1;j<=i;j++)
			{
				c=a+b;
				System.out.print(c+" ");
				a=b;
				b=c;
			}
			System.out.println();

		}
	}
	public static void main(String[] args) {
		fibPattern();
	}
}
```

3rd

```
package Day3;
```

```
public class Pattern {


   public static void starPattern(int n)
   {
      for(int i=1;i<=n;i++)
      {
         for(int j=i;j<=n;j++)
         {
            System.out.print("*");
         }
         System.out.println();
      }
   }


   public static void numPattern()
   {
      for(int i=3;i>=1;i--)
      {
         for(int s=1;s<i;s++)
            System.out.print(" ");
         for(int l=3;l>=i ;l--)
            System.out.print(l);
         for(int r=i+1;r<=3;r++)
            System.out.print(r);
```

```
            System.out.println();
        }
        for(int i=1;i<=2;i++)
        {
            for(int s=1;s<=i;s++)
                System.out.print(" ");
            for(int l=3;l>i;l--)
                System.out.print(l);
            for(int r=i+2;r<4;r++)
                System.out.print(r);
            System.out.println();
        }
    }

    public static void main(String[] args) {
        starPattern(8);
        numPattern();
    }
}
```

4th

```
package Day3;
```

```
public class RevBinary {


	public static void revbin(int n) {
		while(n>0)
		{
			System.out.print(n%2+" ");
			n/=2;
		}
	}
	public static void main(String[] args) {
		revbin(4);
	}
}
```