```
/*
 * To change this license header, choose License Headers in Project Properties.
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 * and open the template in the editor.
 */
package javaapplication206;
import java.util.Scanner;

/**
 *
 * @author CL1-PC1 Students
 */
public class JavaApplication206 {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // TODO code application logic here
         Scanner scan=new Scanner (System.in);

         System.out.println("MENU");
         System.out.println("Enter [1] = Bubble Sort");
         System.out.println("Enter [2] = Factorial");
         System.out.println("Enter [3] = Fibonacci");
         System.out.println("Enter [4] = Prime/Composite");
         System.out.println("Enter [5] = Multiplication table");
         System.out.println("Enter [6] = Asterisk");
         System.out.print("Enter the number of your choice: ");
         char MENU=scan.next().charAt(0);



         switch (MENU)
         {

             case '1':
                System.out.println("Bubble Sort");
                 System.out.print("num 1: ");
        int num1=scan.nextInt();
        System.out.print("num 2: ");
        int num2=scan.nextInt();
        System.out.print("num 3: ");
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int num3=scan.nextInt();
System.out.print("num 4: ");
int num4=scan.nextInt();
System.out.print("num 5: ");
int num5=scan.nextInt();
int temp=0;

if(num1<num2){
temp=num1;
num1=num2;
num2=temp;


}

if(num1<num3){

temp=num1;
num1=num3;
num3=temp;
}
if(num1<num4){

temp=num1;
num1=num4;
num4=temp;
}

if(num1<num5){

temp=num1;
num1=num5;
num5=temp;
}

if(num2<num1){

temp=num2;
num2=num1;
num1=temp;
}

if(num2<num2){
```

```
temp=num2;
num2=num2;
num2=temp;
}

if(num2<num3){

temp=num2;
num2=num3;
num3=temp;
}

if(num2<num4){

temp=num2;
num2=num4;
num4=temp;
}

if(num2<num5){

temp=num2;
num2=num5;
num5=temp;
}

if(num3<num1){

temp=num3;
num3=num1;
num1=temp;
}

if(num3<num2){

temp=num3;
num3=num2;
num2=temp;
}

if(num3<num3){
```

```
temp=num3;
num3=num3;
num3=temp;
}

if(num3<num4){

temp=num3;
num3=num4;
num4=temp;
}

if(num3<num5){

temp=num3;
num3=num5;
num5=temp;
}

if(num4<num1){

temp=num4;
num4=num1;
num1=temp;
}

if(num5<num1){

temp=num5;
num5=num1;
num1=temp;
}

if(num5<num2){

temp=num5;
num5=num2;
num2=temp;
}

if(num5<num3){

temp=num5;
```

```
num5=num3;
num3=temp;
}

if(num5<num4){

temp=num5;
num5=num4;
num4=temp;
}

if(num5<num5){

temp=num5;
num5=num5;
num5=temp;
}

System.out.println(num1);
System.out.println(num2);
System.out.println(num3);
System.out.println(num4);
System.out.println(num5);
  break;

   case '2':

      System.out.println("Factorial");
      int i, fact=1;
int num;

num=scan.nextInt();
for (i=1; i<=num; i++){

    fact=fact*1;
    System.out.println(fact);
    }
     break;

   case '3':
      System.out.println("Fibonacci");
      System.out.print("num1: ");
      int num11=scan.nextInt();
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            System.out.print("num2: ");
            int num22=scan.nextInt();
            int temp11;
            System.out.println(num11);
            for (int a=1; a<=10; a++){
            temp11=num11+num22;
            num11=num22;
            num22=temp11;
            System.out.println(num11);
            }
            break;

        case '4':
            System.out.println("Prime/Composite");
             System.out.println("Enter num: ");
int num33 = scan.nextInt();
int ctr = 0;

for (int j=1; j<num33; j++){

    if(num33%j==0){
        ctr=ctr+1;
    }
}

if(ctr>=2){

    System.out.print("Composite");

}else{

System.out.print("Prime");{


}
}


break;

        case '5':
            for(int q=1; q<=3; q++){
            for (int g=1; g<=3; g++){
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            int L=q*g;
            System.out.println(q+"*"+g+"="+L);



            }
            }
            break;

        case '6':
            for (int b=1; b<=10; b++){
            for(int c=1; c<=b; c++){
            System.out.print("*");
            }
            System.out.println();
            }



}









    }
}
```