JAVA BASICS PROGRAMS:

1)Multiplying a number till 10:

PROGRAM:

```java
import java.util.*;

public class basics {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int a = sc.nextInt();

        int i = 1;

        while (i <= a) {

            System.out.println(i * a);

            i++;

        }

    }

}
```
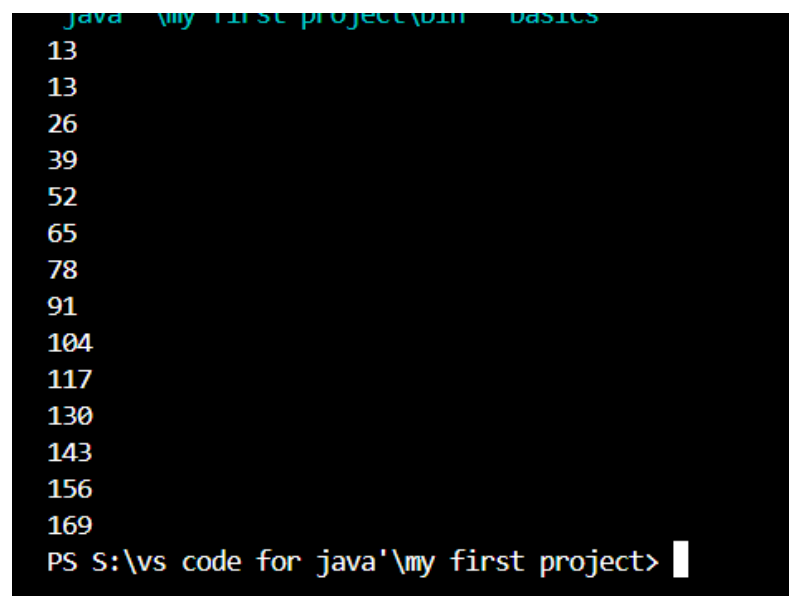
OUTPUT:

```
java  \my first project\bin   basics
13
13
26
39
52
65
78
91
104
117
130
143
156
169
PS S:\vs code for java'\my first project>
```

2)Checking which the largest number from three:

PROGRAM:

```java
import java.util.*;

public class basics {

    public static void main(String[] args){

        Scanner sc = new Scanner(System.in);

        int a = sc.nextInt();

        int b = sc.nextInt();

        int c = sc.nextInt();

        if(a > b && a > c){

            System.out.println(a + " is the greatest among the three");

        } else if(b > a && b > c){

            System.out.println(b + " is the greatest among the three ");

        } else {

            System.out.println(c + " is the greatest among the three");

        }

    }

}
```
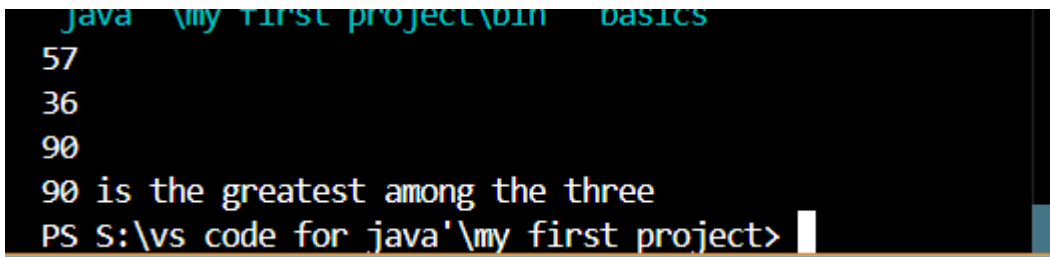
OUTPUT:

3)Calculating the area of a triangle:

PROGRAM:

```java
import java.util.*;
public class basics{
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        int b = sc.nextInt();
        int h = sc.nextInt();
        double c = (0.5 * b * h);
        System.out.println("the area of the triangle is " + c);
    }
}
```
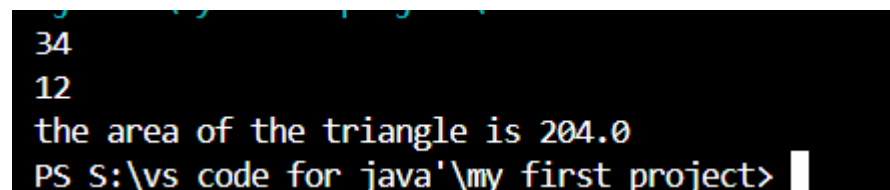
OUTPUT:

```
34
12
the area of the triangle is 204.0
PS S:\vs code for java'\my first project>
```

4)Calculating the area of a circle:

PROGRAM:

```java
import java.util.*;
public class basics{
    public static Double getCircumference(Double r){
        return 2 * 3.14 * r;
    }
```
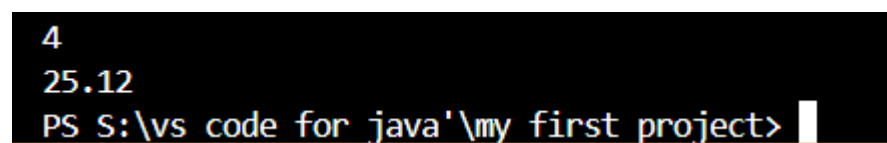
```java
    public static void main(String[] args){

        Scanner sc = new Scanner(System.in);

        Double r = sc.nextDouble();

        System.out.println(getCircumference(r));

    }

}
```

OUTPUT:

```
4
25.12
PS S:\vs code for java'\my first project>
```
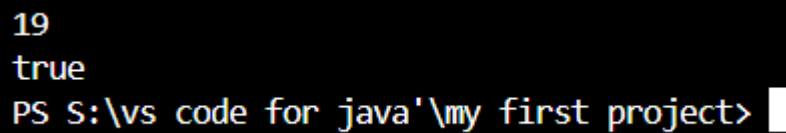
5)Checking whether the person is eligible for voting or not:

PROGRAM:

```java
import java.util.*;

public class basics{

    public static boolean isElligible(int age){

        if(age >= 18){

            return true;

        } else {

            return false;

        }

    }

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

```java
        Scanner sc = new Scanner(System.in);

        int age = sc.nextInt();

        System.out.println(isElligible(age));


    }
}
```

OUTPUT:

```
19
true
PS S:\vs code for java'\my first project>
```
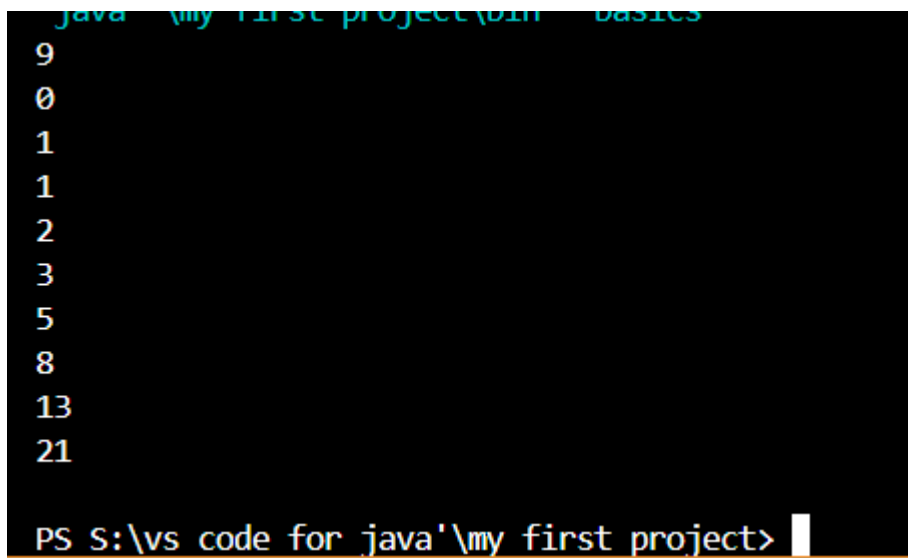
6)Fibonacci series:

PROGRAM:

```java
import java.util.*;
public class basics{
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int a = 0;
        int b = 1;
        System.out.println(a + " ");
        if(n > 1){
            for(int i = 2; i <= n; i++){
                System.out.println(b + " ");
```

```java
            int temp = b;

            b = a + b;

            a = temp;

        }

        System.out.println();

    }

  }
}
```

OUTPUT:

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