

JAVA BASICS PROGRAMS:

1) Multiplying a number till 10:

PROGRAM:

```
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);

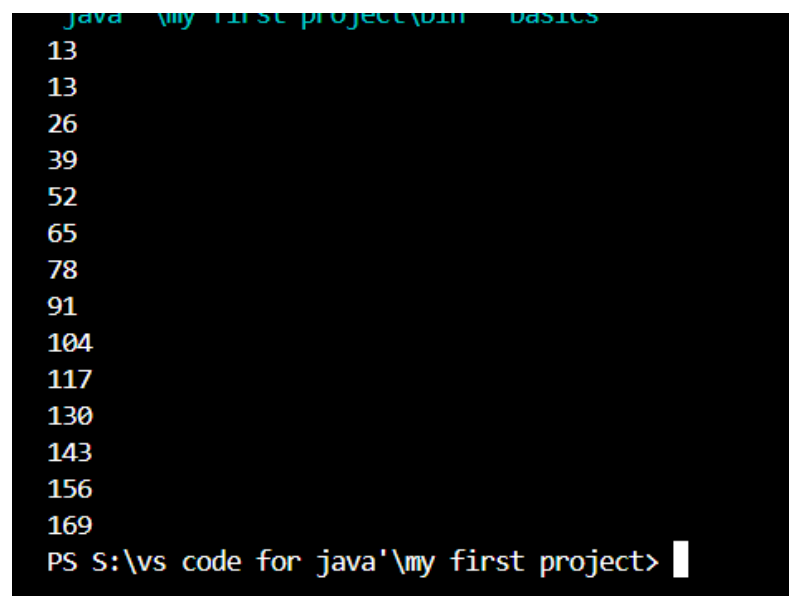
            i++;

        }

    }

}
```

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:

```
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 {

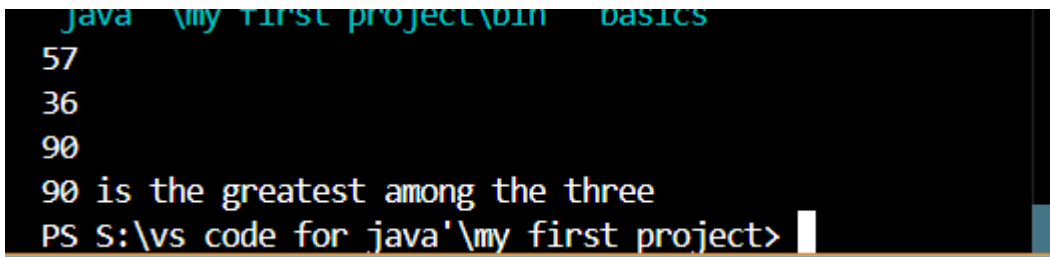
            System.out.println(c + " is the greatest among the three");

        }

    }

}
```

OUTPUT:



```
PS S:\vs code for java'\my first project> java -Xmy first project\bin basics
57
36
90
90 is the greatest among the three
PS S:\vs code for java'\my first project>
```

3)Calculating the area of a triangle:

PROGRAM:

```
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();

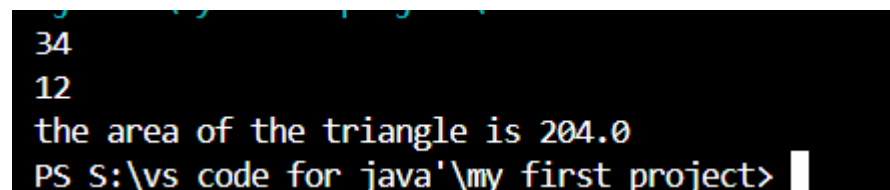
        double c = (0.5 * b * h);

        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:

```
import java.util.*;

public class basics{

    public static Double getCircumference(Double r){

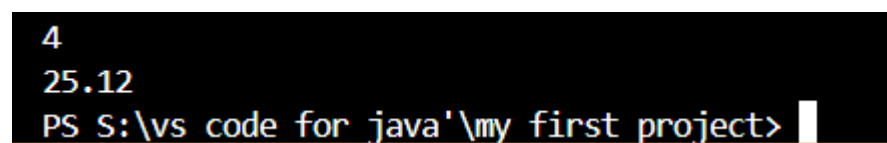
        return 2 * 3.14 * r;

    }

}
```

```
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> |
```

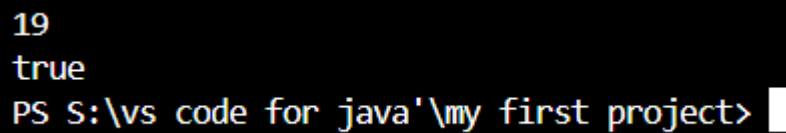
5)Checking whether the person is eligible for voting or not:

PROGRAM:

```
import java.util.*;  
  
public class basics{  
    public static boolean isEligible(int age){  
        if(age >= 18){  
            return true;  
        } else {  
            return false;  
        }  
    }  
}  
  
public static void main(String[] args){
```

```
Scanner sc = new Scanner(System.in);  
int age = sc.nextInt();  
System.out.println(isEligible(age));  
  
}  
}
```

OUTPUT:



```
19  
true  
PS S:\vs code for java'\my first project> |
```

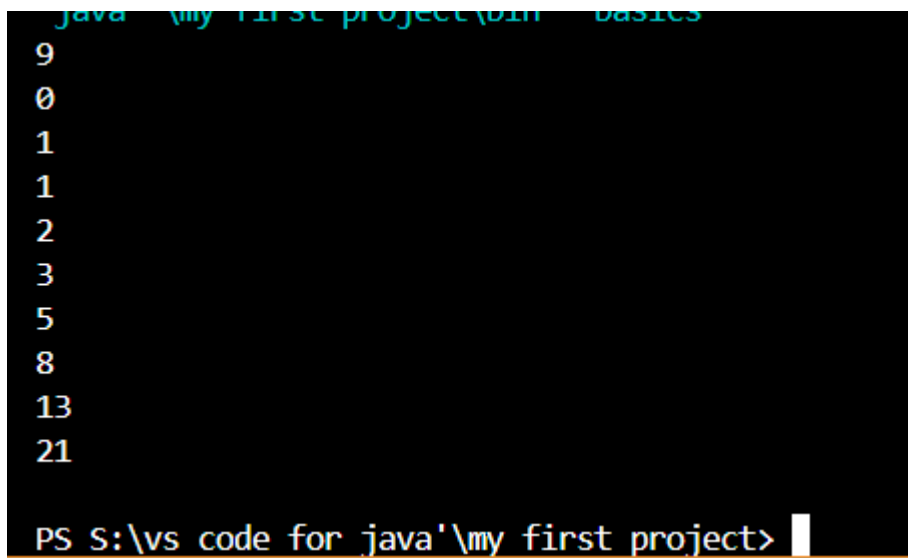
6)Fibonacci series:

PROGRAM:

```
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 + " ");
```

```
        int temp = b;
        b = a + b;
        a = temp;
    }
    System.out.println();
}
}
```

OUTPUT:

A screenshot of a Java program's output in a terminal window. The output consists of ten lines of numbers: 9, 0, 1, 1, 2, 3, 5, 8, 13, and 21. The terminal window has a black background with green text for the prompt and yellow text for the output. The prompt is "PS S:\vs code for java'\my first project>".

```
java -my first project\bin -basics
9
0
1
1
2
3
5
8
13
21
PS S:\vs code for java'\my first project>
```

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