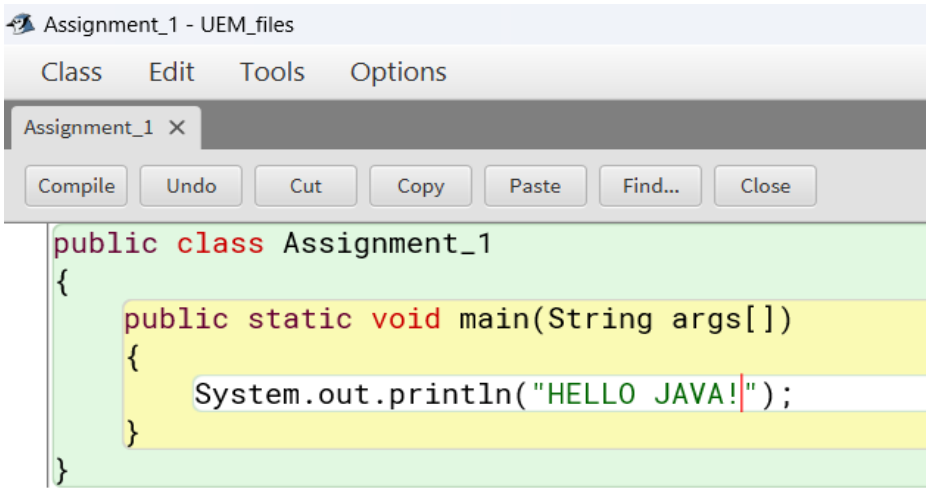
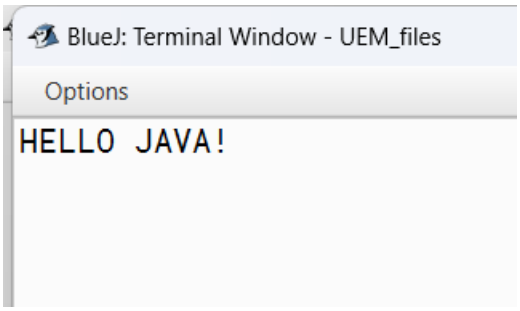
OOPs Assignment 1

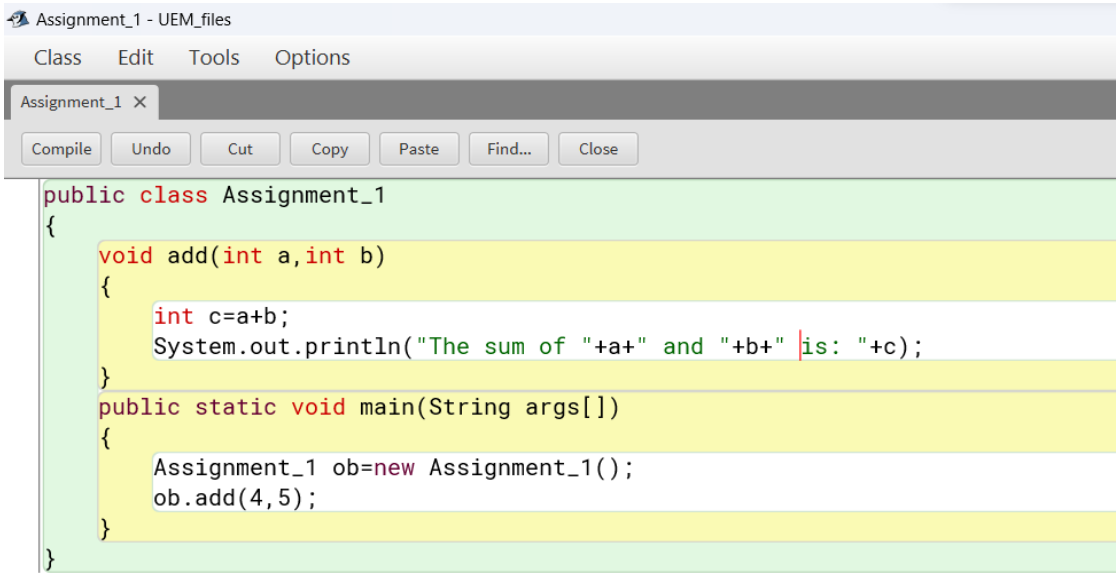
1. WAP in Java to print “HELLO JAVA”.



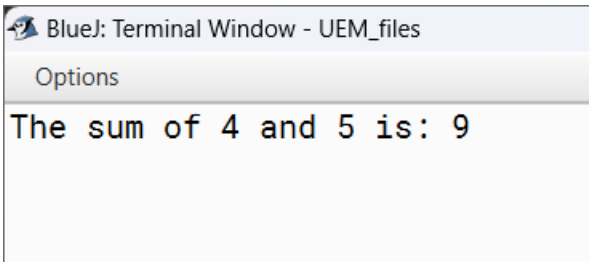
Output:



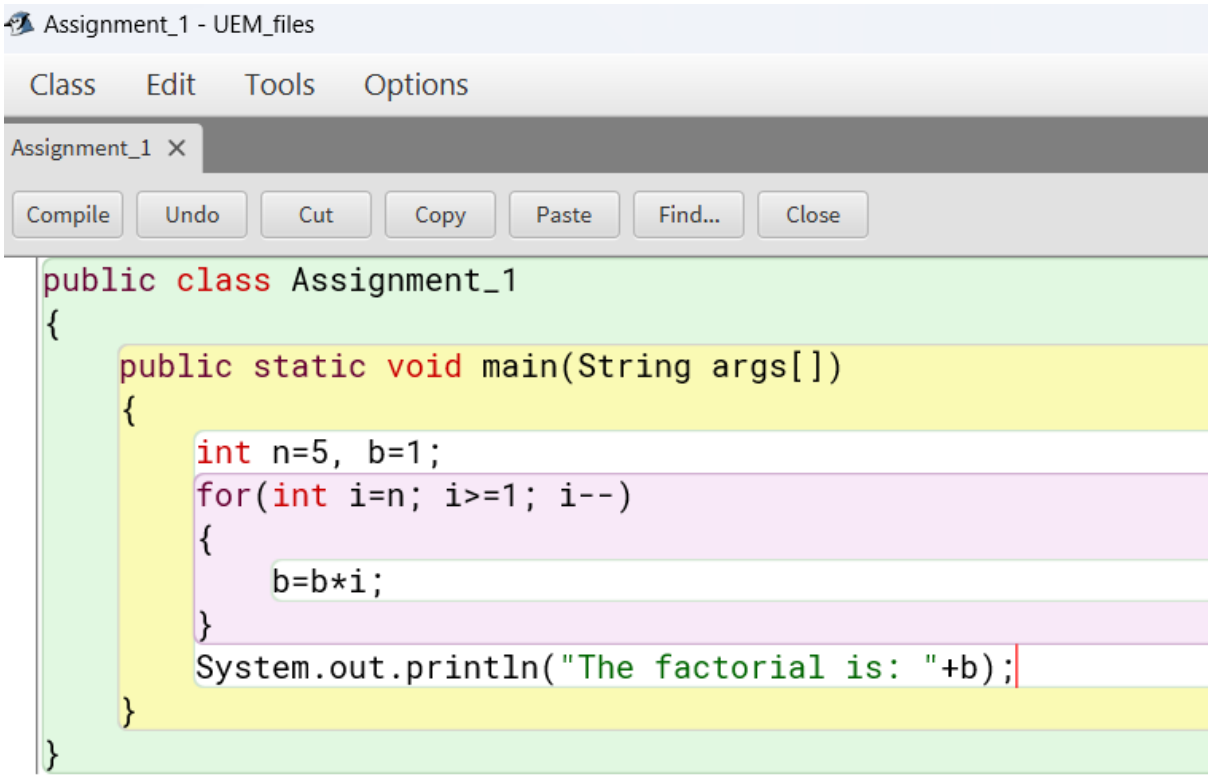
2. Write a Java Program to add two numbers by declaring variables value.



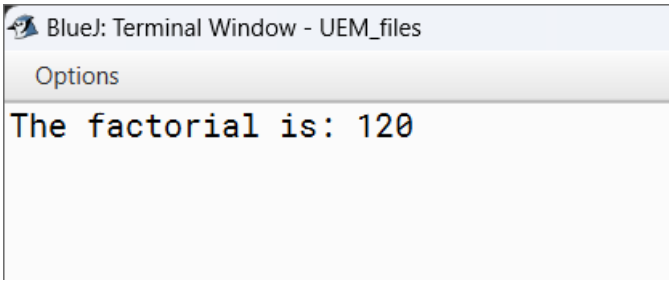
Output:



3. WAP in Java to calculate the factorial of a declared value.



Output:



4. WAP in Java to calculate factorial value of a declared value by separate method segment.

Assignment_1 - UEM_files

Class Edit Tools Options

Assignment_1

Compile Undo Cut Copy Paste Find... Close

```
public class Assignment_1
{
    int factorial(int n)
    {
        int b=1;
        for(int i=n; i>=1; i--)
        {
            b=b*i;
        }
        return b;
    }
    public static void main(String args[])
    {
        int n=5,b;
        Assignment_1 ob=new Assignment_1();
        b=ob.factorial(n);
        System.out.println("The factorial is: "+b);
    }
}
```

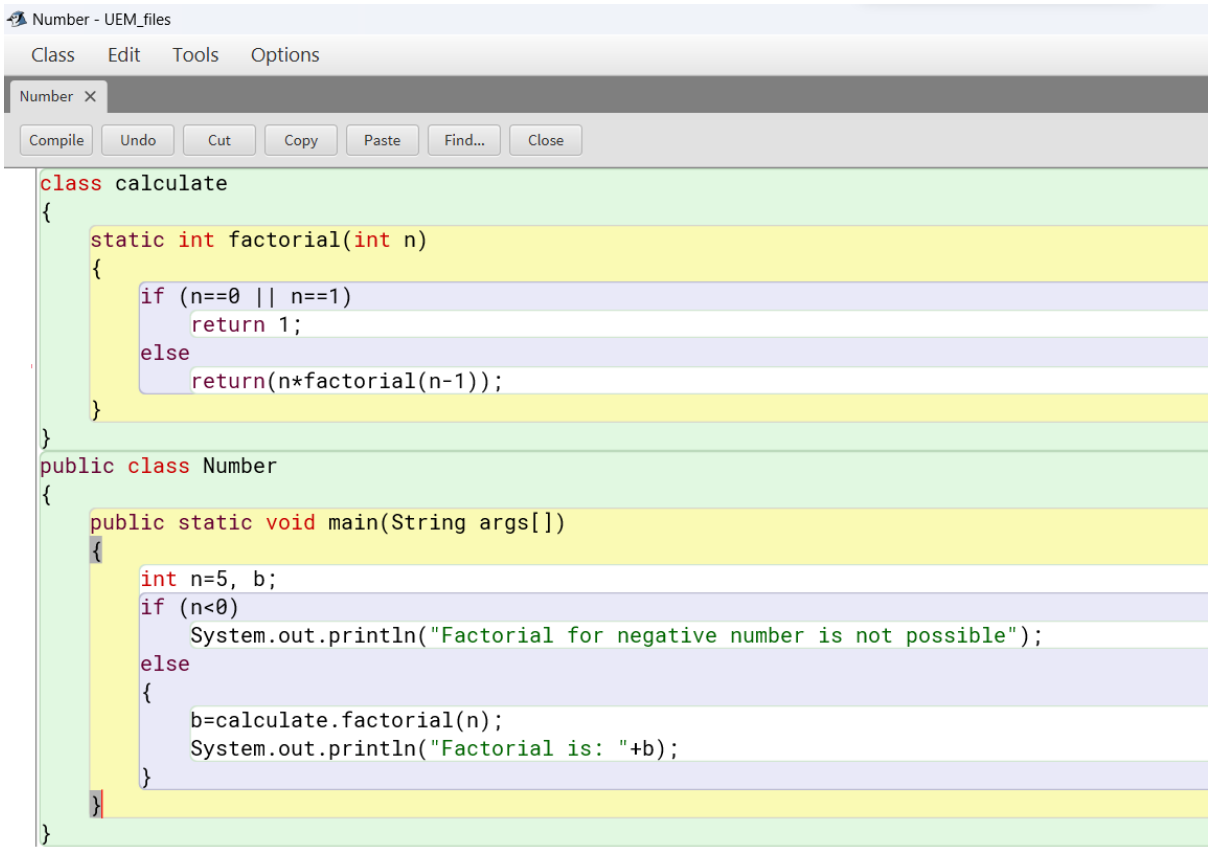
Output:

BlueJ: Terminal Window - UEM_files

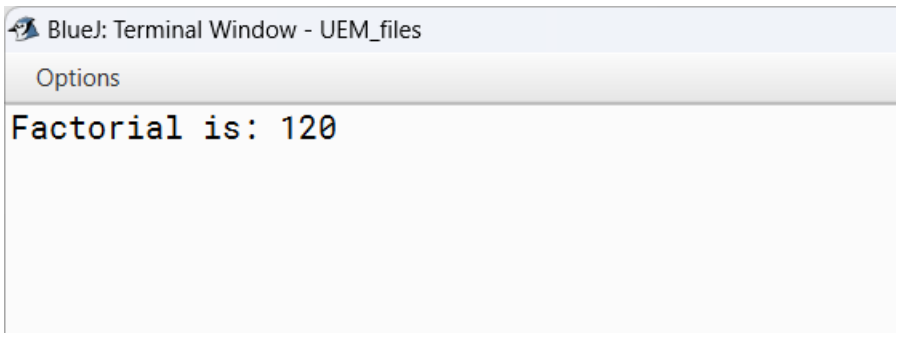
Options

```
The factorial is: 120
```

5. Write a Java Program to calculate factorial value of a declared variable by creating separate class and method for factorial segment.



Output:



6. Write a Java Program to calculate factorial value of a variable by taking input from command line.

Number - UEM_files

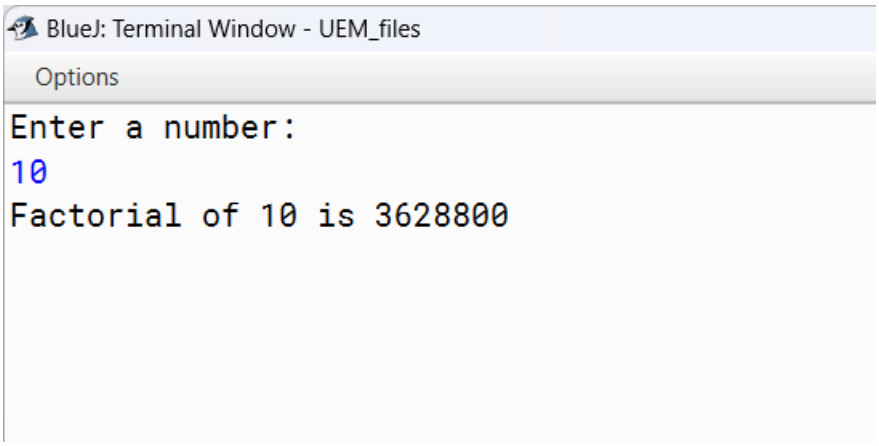
Class Edit Tools Options

Number

Compile Undo Cut Copy Paste Find... Close

```
import java.util.*;
public class Number
{
    int factorial(int n)
    {
        if(n==1 || n==0)
            return 1;
        else
            return(n*factorial(n-1));
    }
    public static void main(String args[])
    {
        Scanner in=new Scanner(System.in);
        System.out.println("Enter a number: ");
        int n=in.nextInt();
        Number ob=new Number();
        int b=ob.factorial(n);
        System.out.println("Factorial of "+n+" is "+b);
    }
}
```

Output:



7. WAP in Java to display whether a number is odd or even.

Number - UEM_files

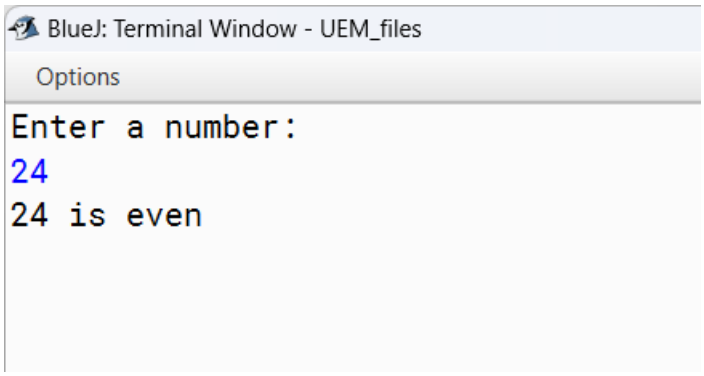
Class Edit Tools Options

Number

Compile Undo Cut Copy Paste Find... Close

```
import java.util.*;
public class Number
{
    public static void main(String args[])
    {
        Scanner in=new Scanner(System.in);
        System.out.println("Enter a number: ");
        int n=in.nextInt();
        if (n%2==0)
            System.out.println(n+" is even");
        else
            System.out.println(n+" is odd");
    }
}
```

Output:



8. WAP in Java to find maximum of three numbers.

Number - UEM_files

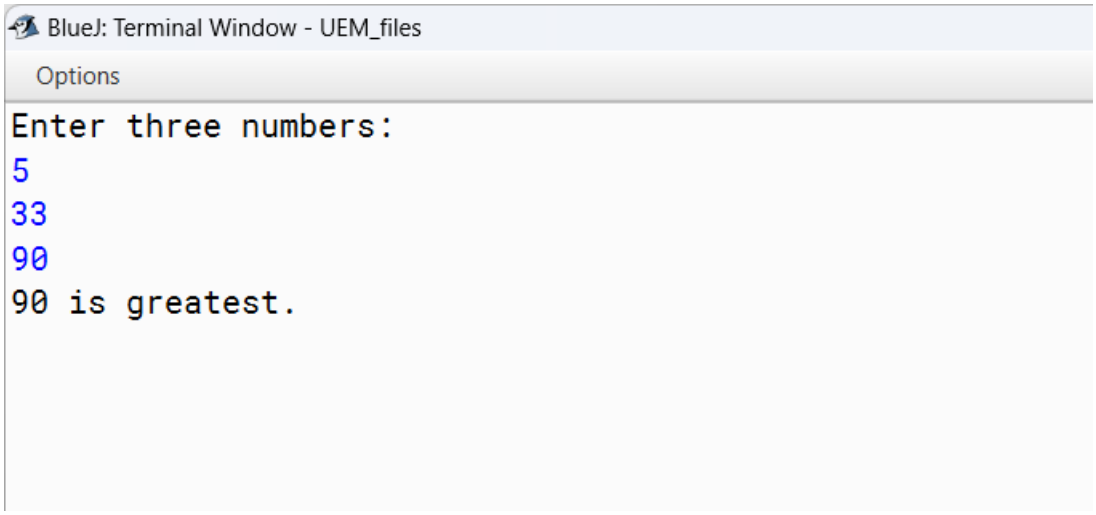
Class Edit Tools Options

Number

Compile Undo Cut Copy Paste Find... Close

```
import java.util.*;
public class Number
{
    public static void main(String args[])
    {
        Scanner in=new Scanner(System.in);
        System.out.println("Enter three numbers: ");
        int a=in.nextInt();
        int b=in.nextInt();
        int c=in.nextInt();
        if (a>b && a>c)
            System.out.println(a+" is greatest.");
        else if(b>a && b>c)
            System.out.println(b+" is greatest.");
        else
            System.out.println(c+" is greatest.");
    }
}
```

Output:



9. WAP in Java to swap two numbers.

Number - UEM_files

Class Edit Tools Options

Number

Compile Undo Cut Copy Paste Find... Close

```
import java.util.*;
public class Number
{
    public static void main(String args[])
    {
        Scanner in=new Scanner(System.in);
        int c;
        System.out.println("Enter two numbers: ");
        int a=in.nextInt();
        int b=in.nextInt();
        c=a;
        a=b;
        b=c;
        System.out.println("Value of 1st input is: "+a);
        System.out.println("Value of 2nd input is: "+b);
    }
}
```

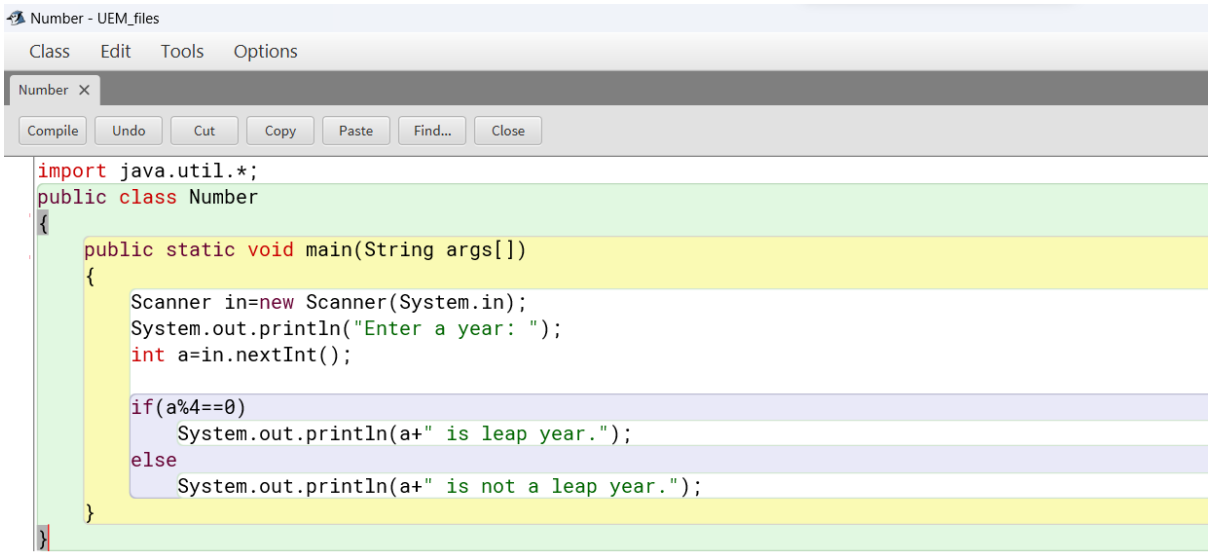
Output:

BlueJ: Terminal Window - UEM_files

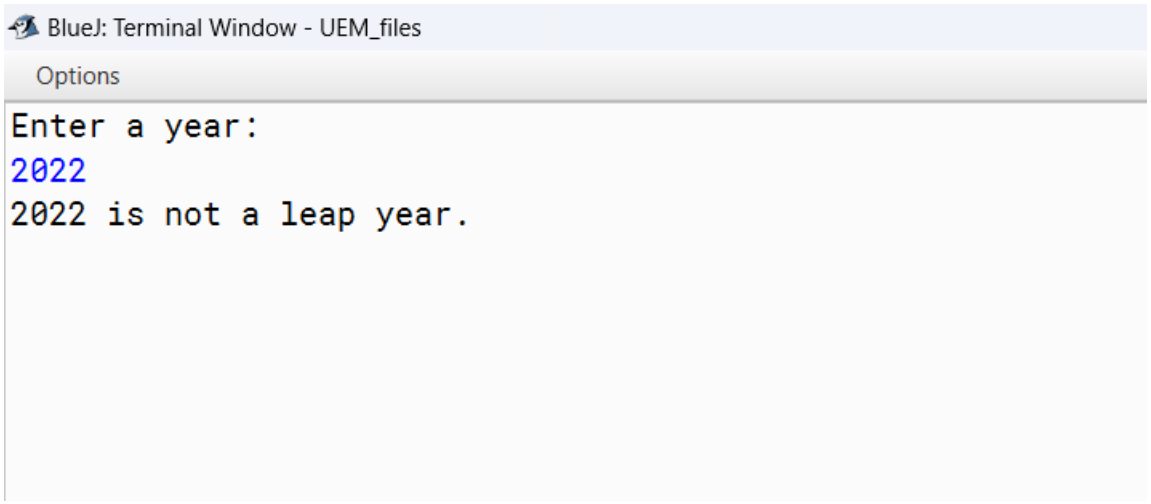
Options

```
Enter two numbers:
33
41
Value of 1st input is: 41
Value of 2nd input is: 33
```

10. WAP in Java to check whether a year is leap year or not.



Output:



11. Write a Java program for following grading system.
    Note:
    Percentage>=90% : Grade A
    Percentage>=80% : Grade B
    Percentage>=70% : Grade C
    Percentage>=60% : Grade D
    Percentage>=40% : Grade E
    Percentage<40% : Grade F

Number - UEM_files

Class Edit Tools Options

Number

Compile Undo Cut Copy Paste Find... Close

```
import java.util.*;
public class Number
{
    public static void main(String args[])
    {
        Scanner in=new Scanner(System.in);
        System.out.println("Enter percentage: ");
        int n=in.nextInt();
        char grade;
        if(n>=90)
            grade='A';
        else if(n>=80 && n<90)
            grade='B';
        else if(n>=70 && n<80)
            grade='C';
        else if(n>=60 && n<50)
            grade='D';
        else if(n>=50 && n<40)
            grade='E';
        else
            grade='F';
        System.out.println("Grade obtained is: "+grade);
    }
}
```

Output:

BlueJ: Terminal Window - UEM_files

Options

```
Enter percentage:
85
Grade obtained is: B
```

12. WAP in Java to check whether a number is divisible by 5 or not.

Number - UEM_files

Class Edit Tools Options

Number

Compile Undo Cut Copy Paste Find... Close

```
import java.util.*;
public class Number
{
    public static void main(String args[])
    {
        Scanner in=new Scanner(System.in);
        System.out.println("Enter a number: ");
        int n=in.nextInt();
        if(n%5==0)
            System.out.println(n+" is divisible by 5");
        else
            System.out.println(n+" is not divisible by 5");
    }
}
```

Output:

BlueJ: Terminal Window - UEM_files

Options

```
Enter a number:
65
65 is divisible by 5
```