Connecting Intelligence

Institute of Computer Engineering Technology

iCET Certified Developer

ASSIGNMENT

Assignement	Programming Fundamentals
Batch No	iCD 113
Name	Typing Practice
Ass. Date	05th August 2024

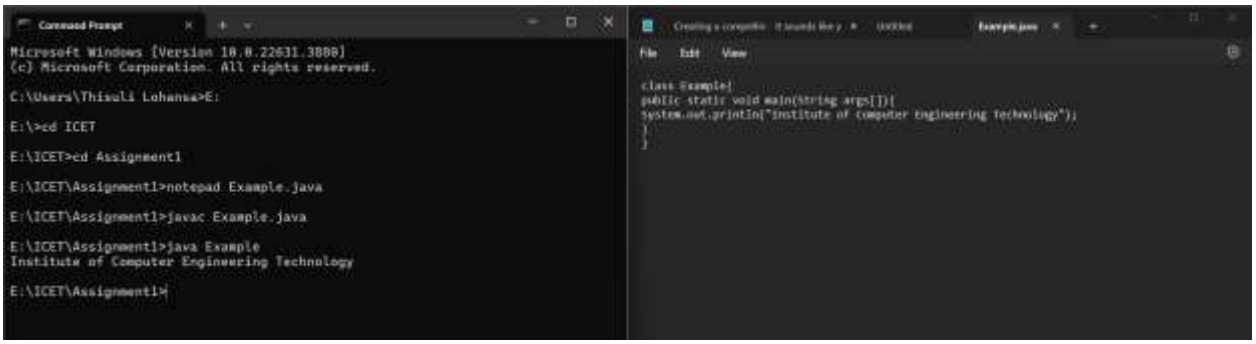
PR2411302 Thisuli Lohansa

Q1.

```
class Example {
    public static void main(String args[]){
        System.out.println("Institute of Computer Engineering Technology");
    }
}
```

//- Output

```
E:\ICET\Assignment1>java Example
Institute of Computer Engineering Technology
```

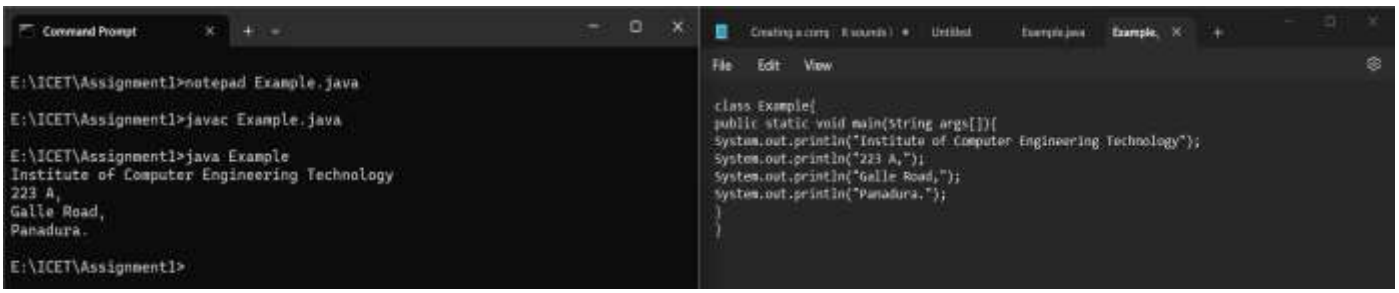


Q2.

```
class Example {
    public static void main(String args[]){
        System.out.println("Institute of Computer Engineering Technology");
        System.out.println("223 A,");
        System.out.println("Galle Road,");
        System.out.println("Panadura");
    }
}
```

//- Output

```
E:\ICET\Assignment1>java Example
Institute of Computer Engineering Technology
223 A,
Galle Road,
Panadura.
```

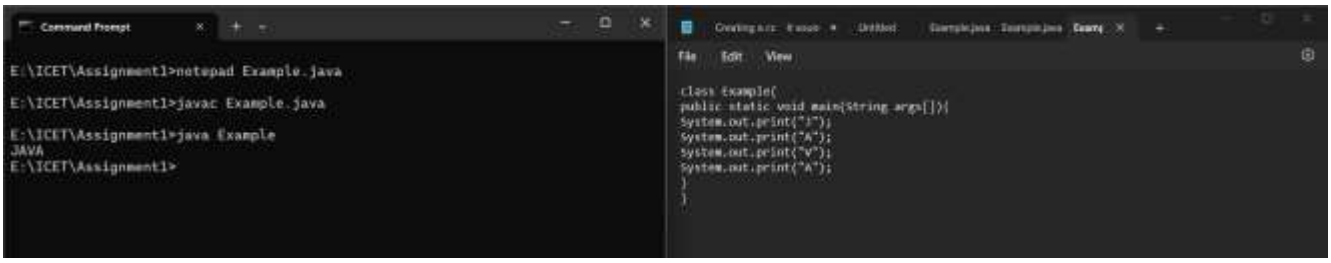


Q3.

```
class Example{
	public static void main(String args[]){
		System.out.print(“J”);
		System.out.print(“A”);
		System.out.print(“V”);
		System.out.print(“A”) ;
	 }
}
```

//- Output

```
E:\ICET\Assignment1>java Example
JAVA
```

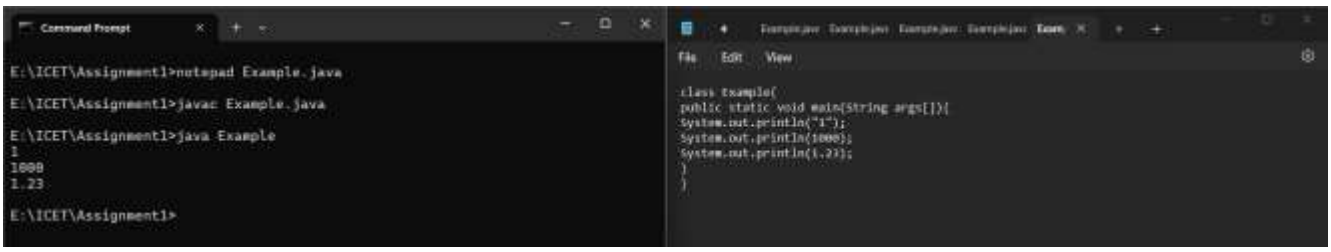


Q4.

```
class Example{
	public static void main(String args[]){
	    System.out.println(“1”);
	    System.out.println(1000);
	    System.out.println(1.23);
	}
}
```

//- Output

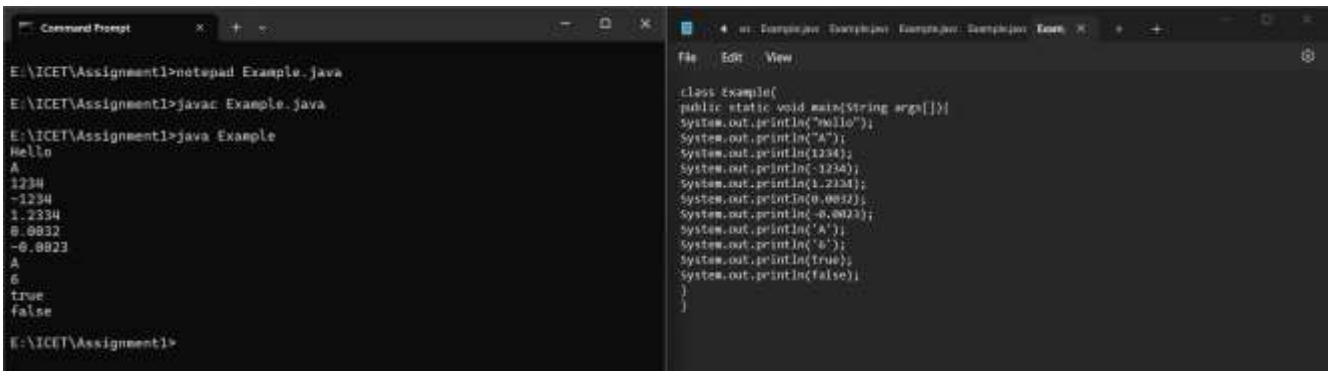
```
E:\ICET\Assignment1>java Example
1
1000
1.23
```



Q5.

```
class Example{
        public static void main(String args[]){
                System.out.println(“Hello”);
                System.out.println(“A”);
                System.out.println(1234);
                System.out.println(-1234);
                System.out.println(1.2334);
                System.out.println(0.0032);
                System.out.println(-1234);
                System.out.prinln(‘A’);
                System.out.prinln(‘6’);
                System.out.prinln(True);
                System.out.prinln(false);
        }
}
```

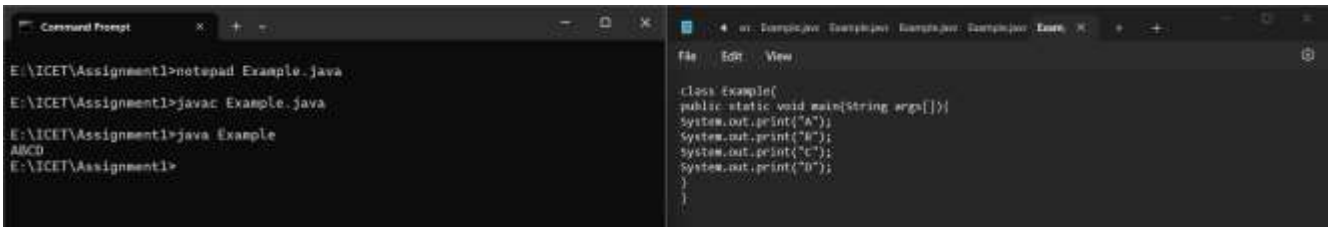
```
//- Output
E:\ICET\Assignment1>java Example
Hello
A
1234
-1234
1.2334
0.0032
-0.0023
A
6
true
false
```



Q6.

```
class Example{
	public static void main(String args[]){
		System.out.print(“A”);
		System.out.print(“B”);
		System.out.print(“C”);
		System.out.print(“D”);
	}
}
```

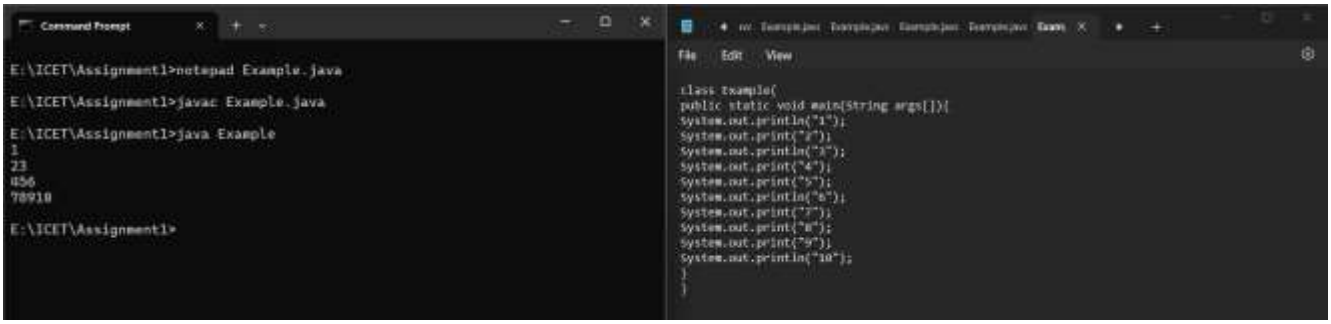
```
//- Output
E:\ICET\Assignment1>java Example
ABCD
```



Q7.

```
class Example{
	public static void main(String args[]){
		System.out.println(“1”);
		System.out.print“2”);
		System.out.println(“3”);
		System.out.print(“4”);
		System.out.print(“5”);
		System.out.println(“6”);
		System.out.print(“7”);
		System.out.print(“8”);
		System.out.print(“9”);
		System.out.println(“10”);
	  }
}
```

```
//- Output

E:\ICET\Assignment1>java Example
1
23
456
78910
```

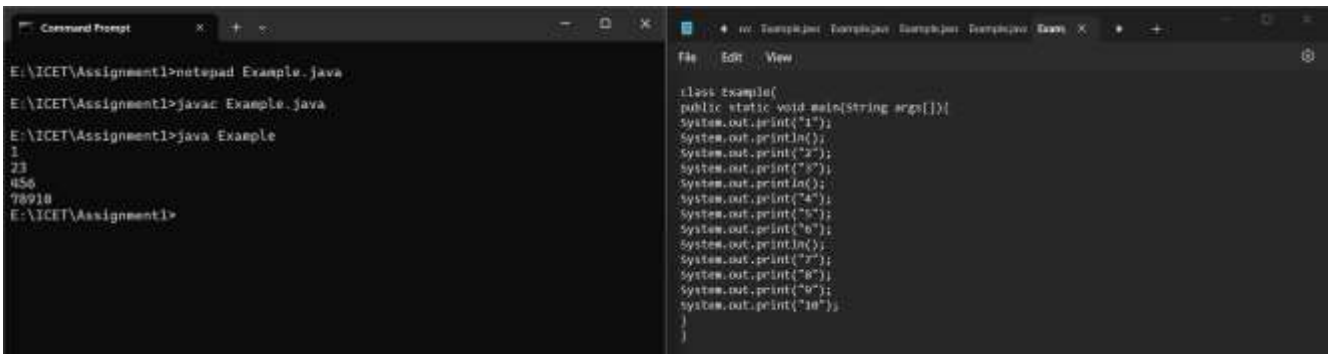


Q8.

```
class Example{
        public static void main(String args[]){
            System.out.print(“1”);
            System.out.println();
            System.out.print(“2”);
            System.out.print(“3”);
            System.out.println();
            System.out.print(“4”);
            System.out.print(“5”);
            System.out.print(“6”);
            System.out.println();
            System.out.print(“7”);
            System.out.print(“8”);
            System.out.print(“9”);
            System.out.print(“10”);
         }
}
```

//- Output

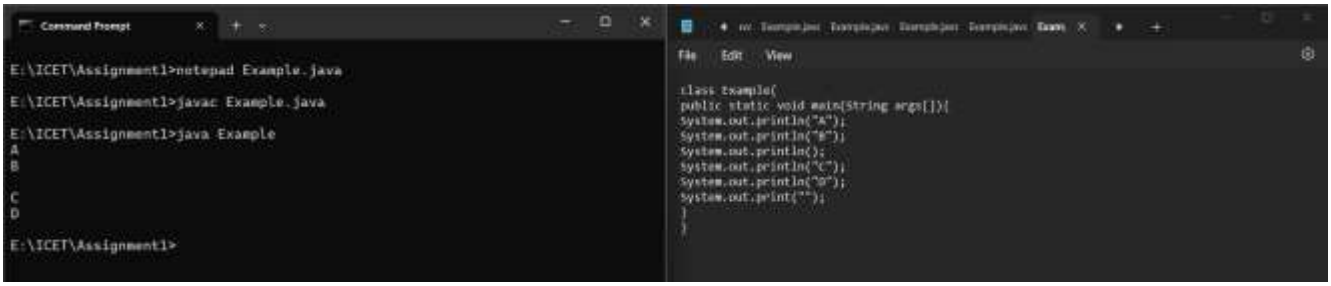
```
E:\ICET\Assignment1>java Example
1
23
456
78910
```



Q9.

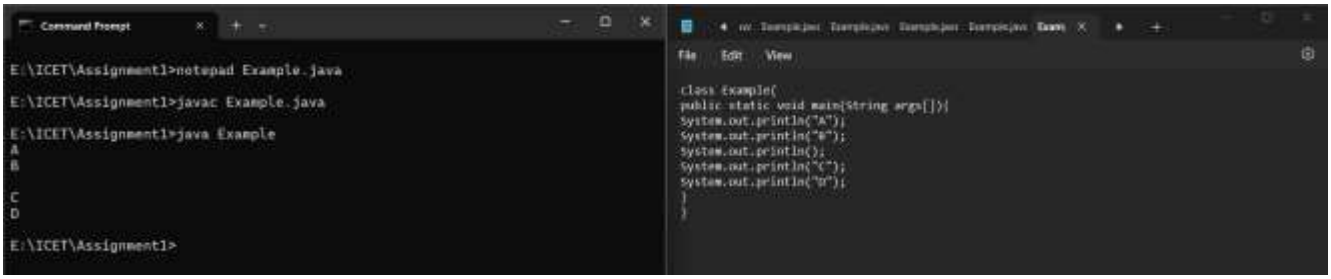
```
class Example{
	public static void main(String args[]){
		System.out.println(“A”);
		System.out.println(“B”);
		System.out.println();
		System.out.println(“C”);
		System.out.println(“D”);
		System.out.print(“”);
	 }
}
```

```
//- Output
E:\ICET\Assignment1>java Example
A
B

C
D
```



Q10.

```
class Example{
	public static void main(String args[]){
	    System.out.println(“A”);
	    System.out.println(“B”);
	    System.out.println();
	    System.out.println(“C”);
	    System.out.println(“D”);
	 }
}
//- Output
E:\ICET\Assignment1>java Example
A
B

C
D
```



Q11.

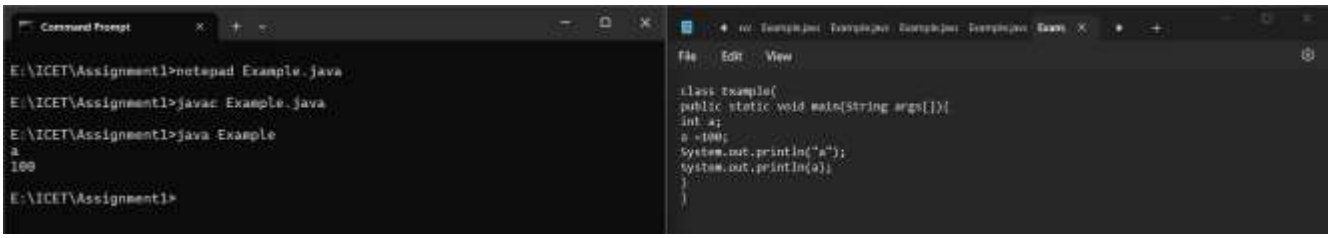
```
class Example{
      public static void main(String args[]){
        Int a;
        A = 100;
              System.out.println(“a”);
              System.out.println(a);
      }
}
```

//- Output

E:\ICET\Assignment1>java Example

a

100



Q12.

```
class Example{
      public static void main(String args[]){
        int a;
              System.out.println(“a”);
              System.out.println(a);
        }
}
```

//- Output

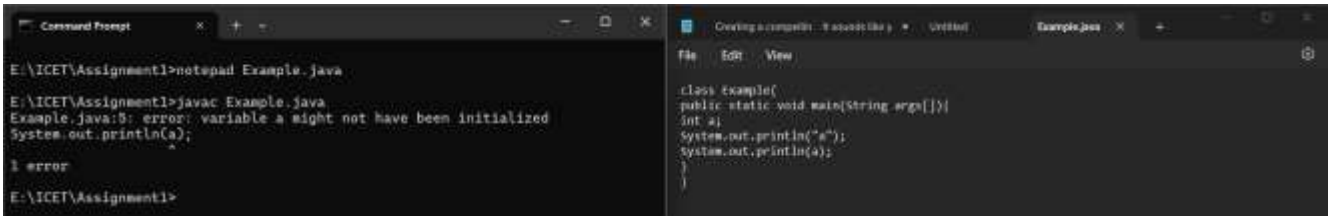
E:\ICET\Assignment1>javac Example.java

Example.java:5: error: variable a might not have been initialized

System.out.println(a);

^

1 error

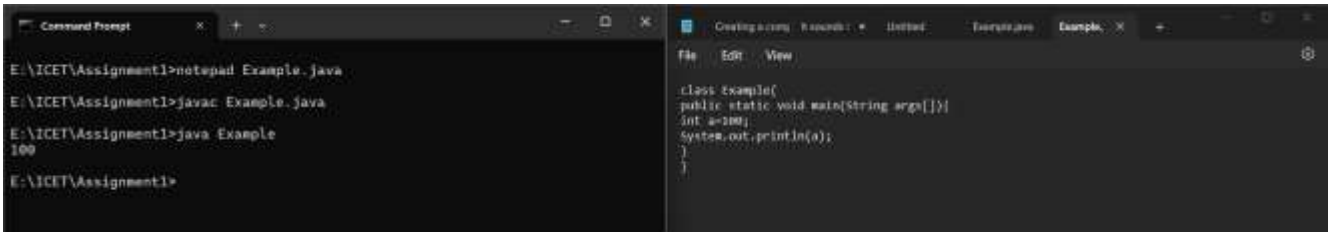


Q13.

```
class Example{
        public static void main(String args[]){
                int a=100;
                    System.out.println(a);
        }
}
```

//-Output

E:\ICET\Assignment1>java Example
100

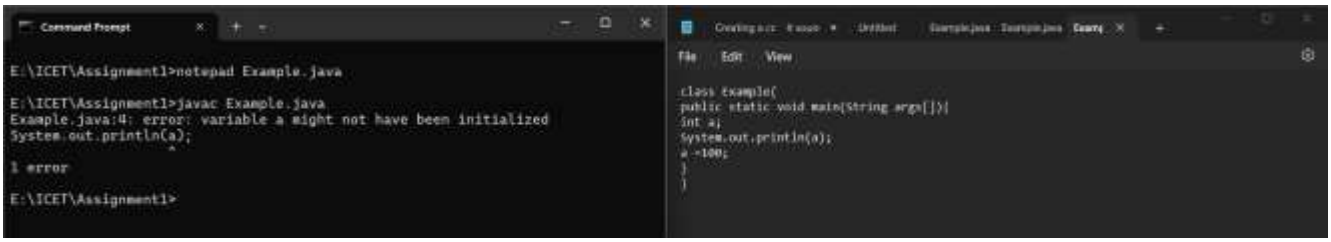


Q14.

```
class Example{
        public static void main{String args[]){
           int a;
             System.out.println(a);
                  a =100;
        }
}
```

//- Output

E:\ICET\Assignment1>javac Example.java
Example.java:4: error: variable a might not have been initialized
System.out.println(a);
^
1 error



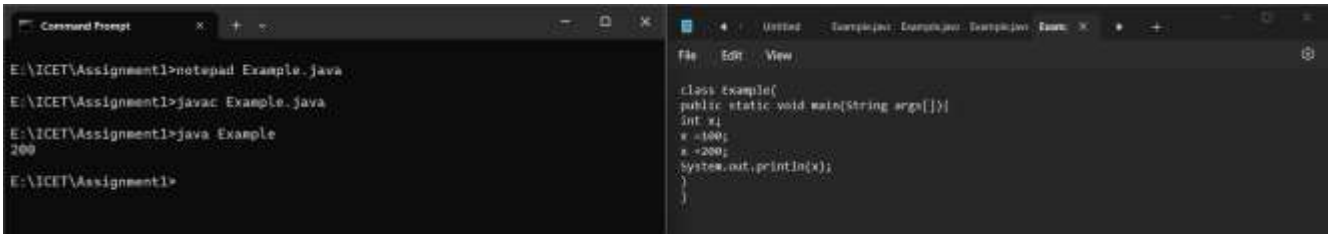
Q15.

```
class Example{
        public static void main(String args[]){
           int x;
           x =100;
           x=200;
              System.out.println(x);
        }
}
```

//- Output

E:\ICET\Assignment1>java Example

200



Q16.

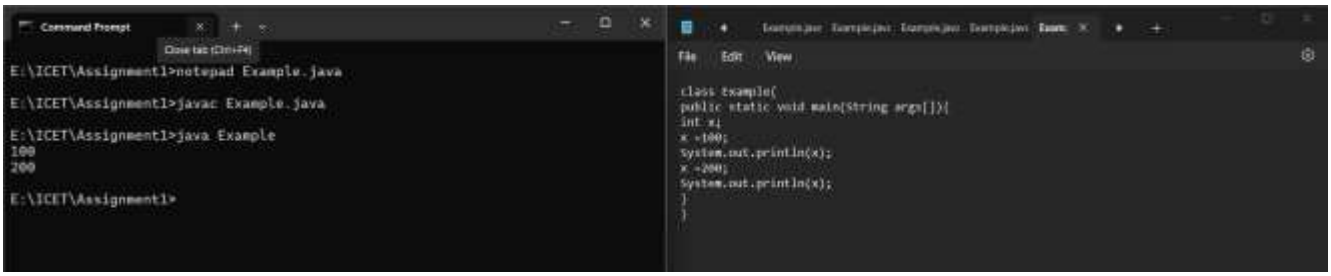
```
class Example{
        public static void main(String args[]){
          int  x;
          X =100;
             System.out.println(x);
             X =200;
             System.out.println(x);
         }
}
```

//- Output

E:\ICET\Assignment1>java Example

100

200

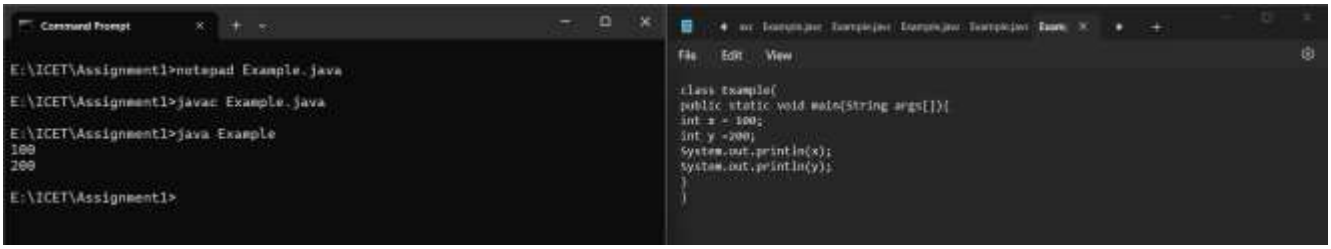


Q17.

```
class Example {
        public static void main(String args[]){
          int x=100;
           int y=200;
              System.out.println(x);
             System.out.println(y);
         }
}
```

//- Output

```
E:\ICET\Assignment1>java Example
100
200
```

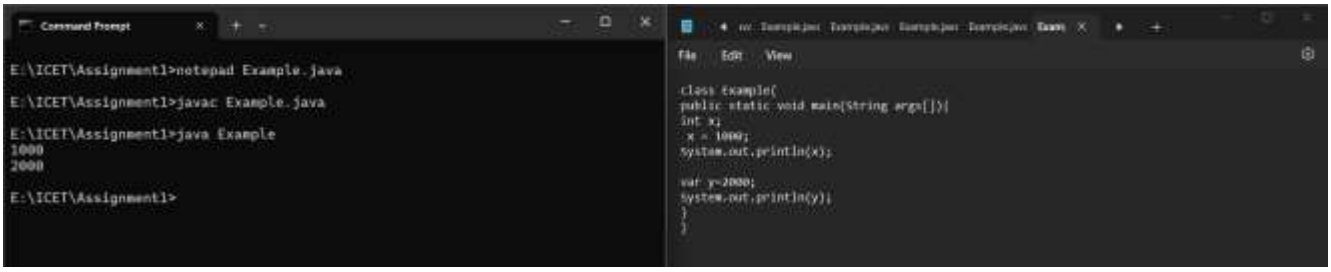


Q18.

```
class Example {
       public static void main(String args[]){
             int x;
             x=1000;
              System.out.println(x);
                     var y=2000;
               System.out.println(y);
        }
}
```

//- Output

```
E:\ICET\Assignment1>java Example
1000
2000
```

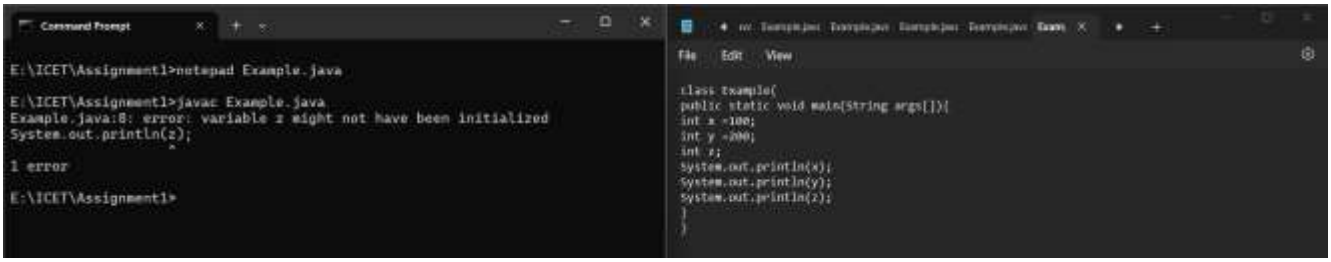


Q19.

```
class Example {
        public static void main(String args[]){
          int x=100;
          int y=200;
           int z;
              System.out.println(x);
              System.out.println(y);
               System.out.println(z);
        }
}
```

//- Output

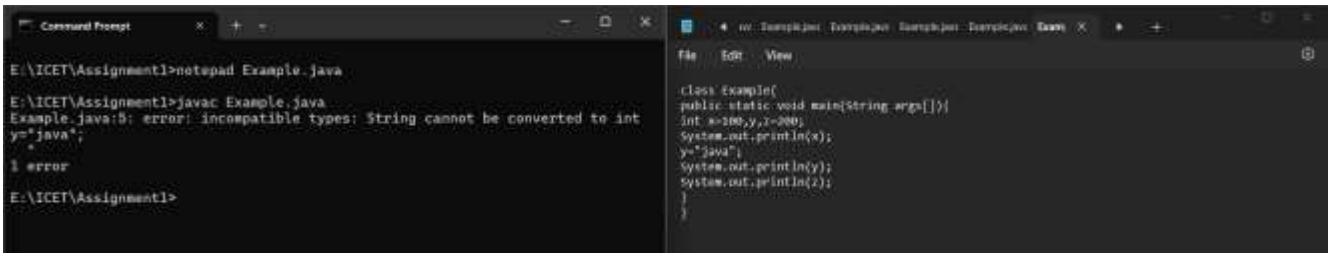
```
E:\ICET\Assignment1>javac Example.java
Example.java:8: error: variable z might not have been initialized
System.out.println(z);
                   ^
1 error
```



Q20.

```
class Example {
     public static void main(String args[]){
       int x=100,y,z=200;
          System.out.println(x);
              y="java";
          System.out.println(y);
          System.out.println(z);
     }
}
```

//- Output
E:\ICET\Assignment1>javac Example.java
Example.java:5: error: incompatible types: String cannot be converted to int
y="java";
  ^
1 error

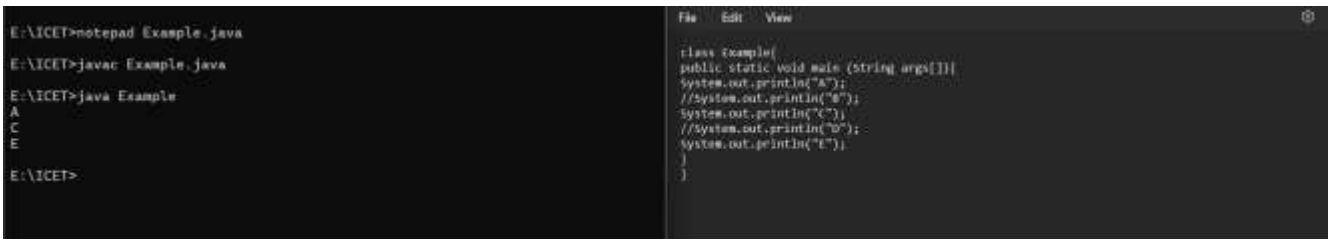


Q21.

```
class Example {
        public static void main(String args[]){
             System.out.println(“A”);
             // System.out.println(“B”);
             System.out.println(“C”);
            // System.out.println(“D”);
            System.out.println(“E”);
      }
}
```

//- Output
E:\ICET>java Example
A
C
E

E:\ICET>



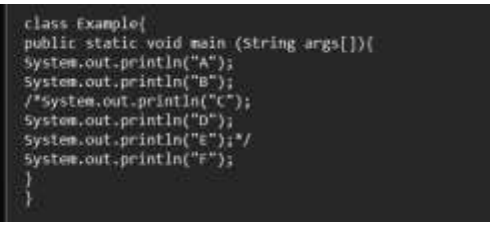
Q22.

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

```
        System.out.println("A");
        System.out.println("B");
       /*System.out.println("C");
       System.out.println("D");
       System.out.println("E");*/
       System.out.println("F");
    }
}
```

//- Output

```
E:\ICET>java Example
A
B
F

E:\ICET>
```



Q23.

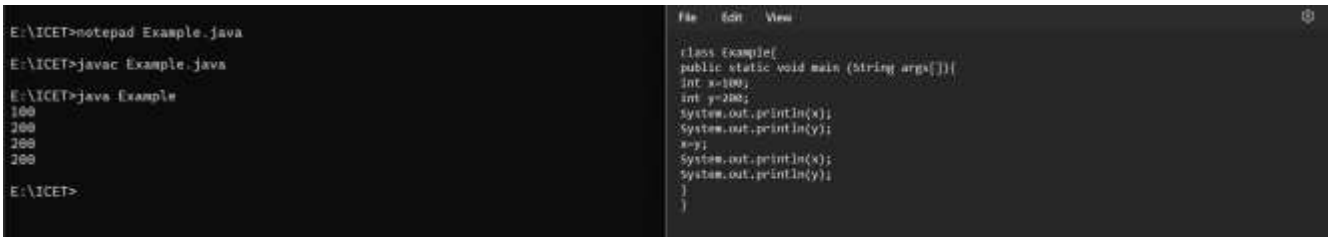
```
class Example {
    public static void main(String args[]){
      int x=100;
      int y=200;
        System.out.println(x);
        System.out.println(y);
          x=y;
          System.out.println(x);
          System.out.println(y);
    }
}
```

//- Output

```
E:\ICET>java Example
100
200
200
```

200

E:\ICET>



Q24.

```
class Example {
        public static void main(String args[]){
           System.out.println(true);
           System.out.println("true");
        }
}
```

//- Output

E:\ICET>java Example
true
true

Q25.

```
class Example {
        public static void main(String args[]) {
              System.out.println(Java);
              System.out.println("Java");
        }
}
```

//- Output
E:\ICET>javac Example.java
Example.java:3: error: cannot find symbol
System.out.println(Java);

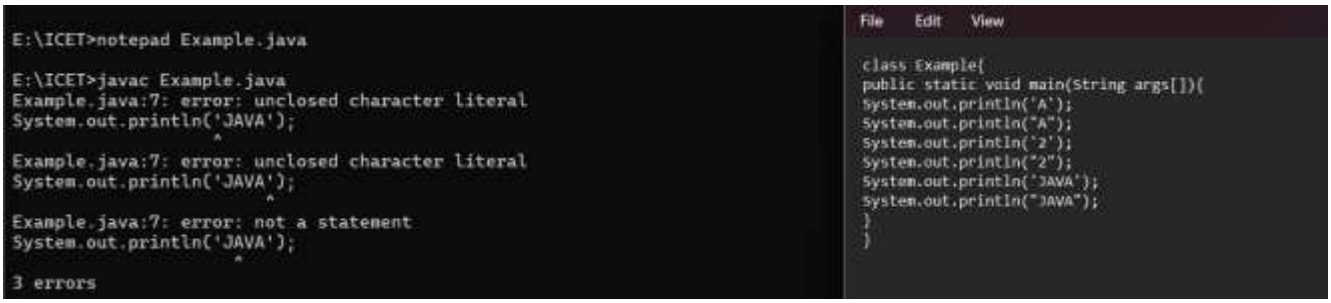
```
                ^
  symbol:   variable Java
  location: class Example
1 error
```

Q26.

```
class Example {
      public static void main(String args[]){
           System.out.println('A');
           System.out.println("A");
           System.out.println('2');
           System.out.println("2");
           System.out.println('JAVA');
          System.out.println("JAVA");
     }
}
```

//- Output

```
E:\ICET>javac Example.java
Example.java:7: error: unclosed character literal
System.out.println('JAVA');
                   ^
Example.java:7: error: unclosed character literal
System.out.println('JAVA');
                     ^
Example.java:7: error: not a statement
System.out.println('JAVA');
                   ^
3 errors
```

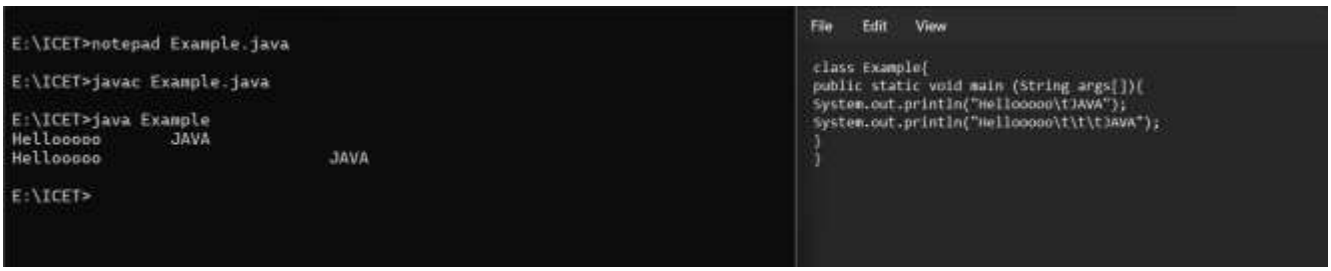


Q27.

```
class Example {
      public static void main(String args[]) {
           System.out.println("Hellooooo\tJAVA");
            System.out.println("Hellooooo\t\t\t\tJAVA");
       }
}
```

//- Output

```
E:\ICET>java Example
Hellooooo       JAVA
Hellooooo                       JAVA
```



Q28.

```
class Example {
     public static void main(String args[]){
          System.out.println("Hi\tJAVA");
          System.out.println("Hello\tWorld");
       }
}
```

//- Output

```
E:\ICET>java Example
Hi      JAVA
Hello   world
```

Q29.

```
class Example {
      public static void main(String args[]){
            System.out.println("AB\nCD");
             System.out.println("");
               System.out.println("EF\tGH\n\nIJ\tKL");
       }
}
```

//- Output

```
E:\ICET>java Example
AB
CD

EF      GH

IJ      KL
```

Q30.

```
class Example {
        public static void main(String args[]) {
            System.out.println("time - "17:56:02");
        }
}
```

//- Output

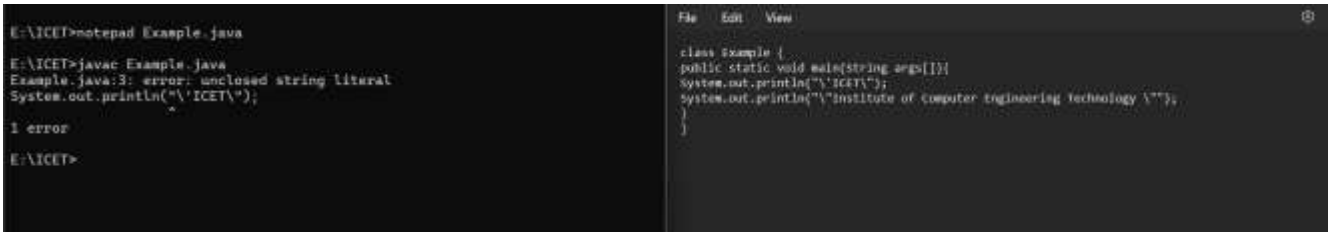
```
E:\ICET>javac Example.java
Example.java:3: error: ')' expected
System.out.println("time - "17:56:02");
                        ^
Example.java:3: error: unclosed string literal
System.out.println("time - "17:56:02");
                               ^
2 errors
```

Q31.

```
class Example {
      public static void main(String args[]){
        System.out.println("\'ICET\");
        System.out.println("\"Institute of Computer Engineering Technology \"");
      }
}
```

//- Output

```
E:\ICET>javac Example.java
Example.java:3: error: unclosed string literal
System.out.println("\'ICET\");
                   ^
1 error
```



Q32.

```
class Example {
        public static void main(String args[]){
            System.out.println("First Line\nSecond Line");
             System.out.println("A\tB\tC");
            System.out.println("D\tE\tF");
        }
}
```

//- Output

```
E:\ICET>java Example
First Line
Second Line
A       B       C
D       E       F
```

Q33.

```
class Example {
         public static void main(String args[]){
             System.out.println("AB\nCD");
             System.out.println("AB\tCD");
             System.out.println("AB\fCD");
             System.out.println("AB\bCD");
             System.out.println("AB\rCD");
             System.out.println("AB\\CD");
        }
}
```

//- Output

```
E:\ICET>java Example
AB
CD
AB      CD
AB
```

CD
ACD
CD
AB\CD

Q34.

```
class Example {
        public static void main(String args[]){
            System.out.println(10+20);
            System.out.println("10"+"20");
             System.out.println("10"+20);
             System.out.println(10+"20");
         }
}
```

//- Output
E:\ICET>java Example
30
1020
1020
1020

Q35.

```
class Example {
        public static void main(String args[]){
          System.out.println(20230326);
          System.out.println("2023-03-26");
       }
}
```

//- Output

```
E:\ICET>java Example
20230326
2023-03-26
```

Q36.

```
class Example {
      public static void main(String args[]){
         int x,y,z;
         x=10;
         y=20;
        z=x+y;
           System.out.println(x+"+"+y+"="+z);
     }
}
```

//- Output

```
E:\ICET>javac Example.java

E:\ICET>java Example
10+20=30
```

Q37.

```
class Example {
        public static void main(String args[]){ int x=10,y=20;
            System.out.println(x+y);
            System.out.println(x+"y");
            System.out.println("x"+"y");
            System.out.println("x+y");
            System.out.println("x"+y);
    }
}
```

//- Output

```
E:\ICET>java Example
30
10y
xy
x+y
x20
```

Q38.

```
class Example {
        public static void main(String args[]) {
         System.out.println (10 + 20 + 30);
         System.out.println ("10 + 20 +30");
          System.out.println (10 + 20 + 30);
           System.out.println("10+20"+30);
            System.out.println("10"+"20"+"30");
           System.out.println ("10"+ 20 + 30 );
          System.out.println ( 10 + 20 +"30");
           System.out.println(10+"20"+30);
    }
}
```

//- Output

```
E:\ICET>java Example
60
10 + 20 +30
60
10+2030
102030
102030
3030
102030
```

```
E:\ICET>notepad Example.java

E:\ICET>javac Example.java

E:\ICET>java Example
60
10 + 20 +30
60
10+2030
102030
102030
3030
102030

E:\ICET>
```

```
File    Edit    View

class Example {
public static void main(String args[]) {
System.out.println (10 + 20 + 30);
System.out.println ("10 + 20 +30");
System.out.println (10 + 20 + 30);
System.out.println("10+20"+30);
System.out.println("10"+"20"+"30");
System.out.println ("10"+ 20 + 30 );
System.out.println ( 10 + 20 +"30");
System.out.println(10+"20"+30);
}
}
```

Q39.

```
class Example {
        public static void main(String args[]){
            String sl="Hello";
                System.out.println(s1);
                 System.out.println(sl.concat(" JAVA"));
          }
}
```

//- Output

```
E:\ICET>javac Example.java
Example.java:4: error: cannot find symbol
System.out.println(s1);
                   ^
  symbol:   variable s1
  location: class Example
1 error
```

Q40.

```
class Example {
        public static void main(String args[]){
          int x, y, z;
           x=10;
            y=20;
             z=x+y;
                System.out.println(x+" + "+y+" = "+z); z=x-y;
                System.out.println(x+" - "+y+" = "+z); z=x*y;
                 System.out.println(x+"*"+y+" = "+z);
      }
}
```

//- Output

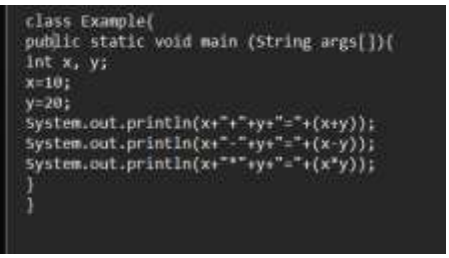
```
E:\ICET>java Example
10 + 20 = 30
10 - 20 = -10
10*20 = 200
```

Q41.

```
class Example{
      public static void main(String args[]){
        int x, y;
        X=10;
        Y=20;
          System.out.println(x+"+"+y+"="+(x+y));
          System.out.println(x+"-"+y+"="+(x-y));
          System.out.println(x+"*"+y+"="+(x*y));
      }
}
```

//- Output

E:\ICET>java Example
10+20=30
10-20=-10
10*20=200



Q42.

```
class Example{
        public static void main(String args[]){
          int x, y;
          X=100;
          Y=200;
              System.out.println(x);
              System.out.println(y);

            Y=x;
               System.out.println(x);
               System.out.println(y);
        }
}
```

//- Output

E:\ICET>java Example
100
200
100
100

Q43.

```
class Example{
      public static void main(String args[]){
        int num=103;
            if(num>0){
                System.out.println(num+"is positive number");
                 } else if(num<0){
                System.out.println(num+"is negative number");
                }else{
                 System.out.println(num+"is 0");
                  }
          }
}
```

//- Output

E:\ICET>java Example
103id Positive number

Q44.

```
import jva.util.*;
      class Example{
        public static void main(String args[]){
          Scanner input = new Scanner(System.in);
              System.out.println("Input number-");
```

```
            int num=input.nextlnt();
           if(num>0){
           System.out.println(num+”is positive number”);
           }else if(num<0){
               System.out.println(num+”is negative number”);
               }else{
                   System.out.println(num+”is 0”);
          }
         }
}
```

//- Output

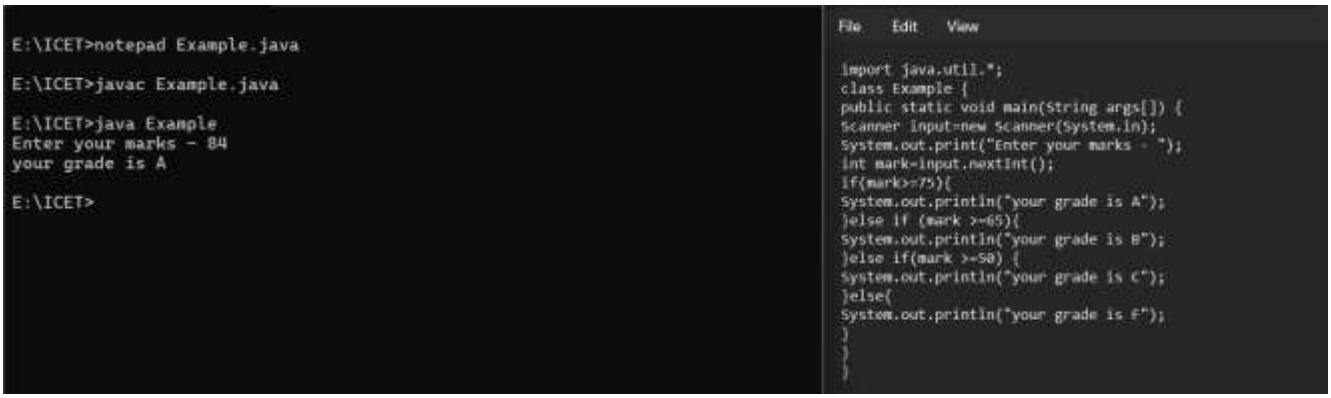
```
E:\ICET>java Example
Input number - 2
2 is positive number
```

Q45.

```
import java.util.*;
      class Example {
          public static void main(String args[]) {
           Scanner input=new Scanner(System.in); System.out.print("Enter your marks - ");
               int mark=input.nextInt();
                    if(mark>=75){
           System.out.println("your grade is A");
           }else if (mark >=65){
           System.out.println("your grade is B"); }else if(mark >=50) {
           System.out.println("your grade is C");
           }else{
           System.out.println("your grade is F");
           }
     }
}
```

//- Output

E:\ICET>java Example
Enter your marks - 84
your grade is A

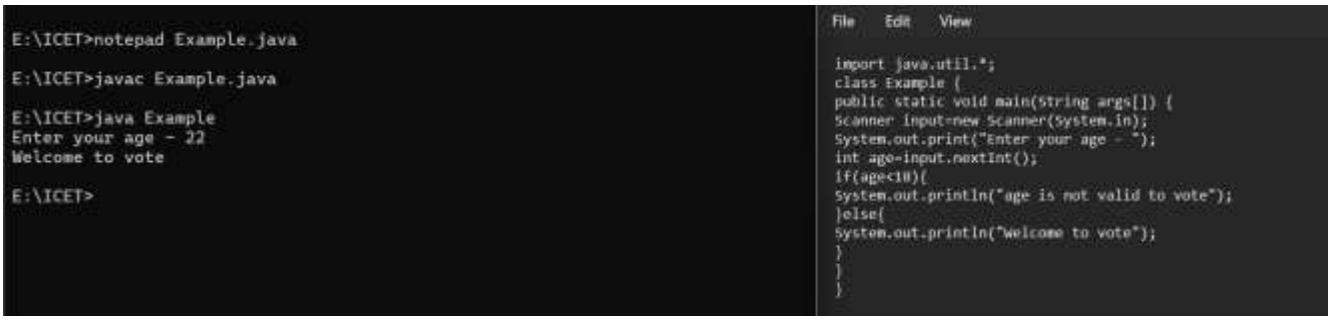


Q46.

```
import java.util.*;
      class Example {
      public static void main(String args[]) {
     Scanner input=new Scanner(System.in);
     System.out.print("Enter your age - ");
    int age=input.nextInt();
     if(age<18){
        System.out.println("age is not valid to vote");
        }else{
            System.out.println("Welcome to vote");
        }
    }
}
```

//- Output

E:\ICET>java Example
Enter your age - 22
Welcome to vote



Q47.

```
class Example {
        public static void main(String args[]) {
            double x, y, z;
             x=3;
             y=4;
              z=Math.sqrt(x*x + y*y);
             System.out.println("Hypotenuse is" +z);
        }
}
```

//- Output

E:\ICET>java Example

Hypotenuse is5.0

Q48.

```
import java.util.*;
        class Example {
          public static void main(String [] args) {
              Scanner input=new Scanner(System.in);
                  System.out.print("Enter any number- ");
    int num=input.nextInt();
    int fact=1;
    for(int i=1;i<num;i++){
    fact=fact*i;
     }
          System.out.println("The factorial of" +num+"is"+fact);
}
}
```

//- Output

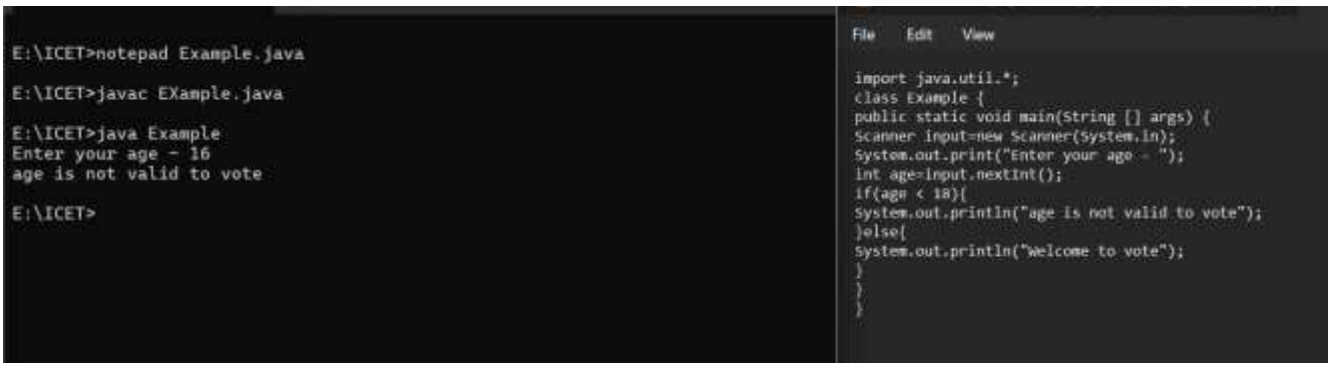
E:\ICET>java Example
Enter any number- 6
The factorial of6is120

Q49.

```
import java.util.*;
      class Example {
        public static void main(String [] args) {
          Scanner input=new Scanner(System.in);
               System.out.print("Enter your age - ");
                    int age=input.nextInt();
                    if(age < 18){
                     System.out.println("age is not valid to vote");
                    }else{
                     System.out.println("Welcome to vote");
             }
        }
}
```

//- Output

E:\ICET>java Example
Enter your age - 16
age is not valid to vote



Q50

```
public class Example{
        public static void main(String args[]){
          for (int i=5;i<6;i++){
            int result = i! = 0 ? 100/I : 0;
            if(i!=0){
              System.out.println(“100/”+i+”is”+result);
        }
      }
   }
}
```

//- Output

E:\ICET>java Example
100/5is20