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```

```
Q1)
class Example{
      public static void main(String args[]){
            System.out.println("Institute of Computer Engineering Technology");
      }
}
OUTPUT
E:\ICET 110>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 110>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");
      }
}
```

```
E:\ICET 110>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 110>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("-0.0023");
            System.out.println('A');
            System.out.println('6');
            System.out.println(true);
            System.out.println(false);
      }
}
OUTPUT
E:\ICET 110>Java Example
Hello
Α
1234
-1234
```

OUTPUT

```
1.2334
0.0032
-0.0023
Α
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 110>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 110>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 110>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 110>java Example
Α
В
```

```
C
D
Q10)
class Example{
      public static void main(String args[]){
            System.out.println("A");
            System.out.println("B");
            System.out.print();
            System.out.println("C");
            System.out.println("D");
      }
}
OUTPUT
E:\ICET 110>javac Example.java
Example.java:5: error: no suitable method found for print(no arguments)
         System.out.print();
  method PrintStream.print(boolean) is not applicable
   (actual and formal argument lists differ in length)
  method PrintStream.print(char) is not applicable
   (actual and formal argument lists differ in length)
  method PrintStream.print(int) is not applicable
   (actual and formal argument lists differ in length)
  method PrintStream.print(long) is not applicable
   (actual and formal argument lists differ in length)
  method PrintStream.print(float) is not applicable
   (actual and formal argument lists differ in length)
  method PrintStream.print(double) is not applicable
   (actual and formal argument lists differ in length)
  method PrintStream.print(char[]) is not applicable
   (actual and formal argument lists differ in length)
  method PrintStream.print(String) is not applicable
   (actual and formal argument lists differ in length)
  method PrintStream.print(Object) is not applicable
   (actual and formal argument lists differ in length)
```

1 error

```
Q11)
class Example{
      public static void main(String args[]){
            int a;
            a=100;
            System.out.println("a");
            System.out.println(a);
      }
}
OUTPUT
E:\ICET 110>java Example
100
Q12)
class Example{
      public static void main(String args[]){
            int a;
            System.out.println("a");
            System.out.println(a);
      }
}
OUTPUT
E:\ICET 110>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 110>java Example
100
```

```
Q14)
class Example{
      public static void main(String args[]){
             int a;
            System.out.println(a);
             a=100;
      }
}
OUTPUT
E:\ICET 110>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 110>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 110>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 110>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 110>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 110>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 110>javac Example.java
Example.java:5: error: incompatible types: String cannot be converted to int
         y="java";
          ۸
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 110>java Example
C
Ε
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 110>java Example
Α
В
F
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 110>java Example
100
200
200
200
```

```
Q24)
class Example{
      public static void main(String args[]){
             System.out.println(true);
            System.out.println("true");
      }
}
OUTPUT
E:\ICET 110>java Example
true
true
Q25)
class Example{
      public static void main(String args[]){
            System.out.println(Java);
            System.out.println("Java");
      }
}
OUTPUT
E:\ICET 110>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 110>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 110>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 110>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 110>java Example
AΒ
CD
EF
     GH
    KL
IJ
Q30)
class Example{
      public static void main(String args[]){
            System.out.println("time - "17:56:02"");
      }
}
OUTPUT
E:\ICET 110>javac Example.java
Example.java:3: error: ')' expected
        System.out.println("time - "17:56:02"");
1 error
Q31)
class Example{
      public static void main(String args[]){
            System.out.println("\'iCET\"");
            System.out.println("\"Institute of Computer Engineering Technology\"");
      }
}
```

```
OUTPUT
E:\ICET 110>java Example
'iCET"
"Institute of Computer Engineering Technology"
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 110>java Example
First Line
Second Line
Α
     В
          C
     Ε
          F
D
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 110>java Example
AΒ
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 110>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 110>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 110>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 110>java Example
30
ху
х+у
x20
10y
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 110>java Example
60
10+20+30
60
10+2030
102030
102030
3030
102030
```

```
Q39)
class Example{
      public static void main(String args[]){
            String s1="Hello";
            System.out.println(s1);
            System.out.println(s1.concat(" JAVA"));
      }
}
OUTPUT
E:\ICET 110>java Example
Hello
Hello JAVA
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 110>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 110>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 110>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){</pre>
         System.out.println(num+"is negative number");
    }else{
         System.out.println(num+"is 0");
      }
  }
}
OUTPUT
E:\ICET 110>java Example
103is positive number
Q44)
import java.util.*;
class Example{
  public static void main(String args[]){
      Scanner input=new Scanner(System.in);
      System.out.print("Input number-");
      int num=input.nextInt();
        if(num>0){
         System.out.println(num+"is positive number");
      }else if(num<0){</pre>
         System.out.println(num+"is negative number");
    }else{
         System.out.println(num+"is 0");
      }
  }
}
OUTPUT
E:\ICET 110>java Example
Input 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 110>java Example
Enter your marks-
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 110>java Example
Enter your age -
```

```
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 110>java Example
Hypotenuse is 5.0
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++){</pre>
          fact=fact*i;
     }
       System.out.println("The factorial of"+num+" is "+fact);
  }
}
OUTPUT
E:\ICET 110>java Example
Enter any number -
```

```
Q49)
```

OUTPUT

E:\ICET 110>java Example Input your age –

```
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 110>java Example
100/-5is-20
100/-4is-25
100/-3is-33
100/-2is-50
100/-1is-100
```

100/1is100 100/2is50 100/3is33 100/4is25 100/5is20