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

//Output//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
Institute of Computer Engineering Technology

```java
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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
Institute of Computer Engineering Technology
223 A,
Galle Road
Panadura

```java
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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
JAVA

```java
Q4: class Example {
        public static void main (String[] args) {
                System.out.println("1");
                System.out.println(1000);
                System.out.println(1.23);
```

```
        }
}
```

//Output//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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");

```java
                System.out.print("D");
        }
}
```

//Output//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
ABCD

Q7: class Example {
```java
        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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
1
23
456
78910

Q8: class Example {
```java
        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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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.print();
                System.out.println("C");
                System.out.println("D");
        }
}

//Output//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java 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
error: compilation failed
```

Q11: class Example {
        public static void main (String[] args) {
                int a;
                a=100;
                System.out.println("a";
                System.out.println(a);
        }
}

//Output//
```
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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

C:\Users\kavin\OneDrive\Desktop\Typing Exercise>
```

Q12:
```java
class Example {
        public static void main (String[] args) {
                int a;
                System.out.println("a";
                System.out.println(a);
        }
}
```

//Output//
```
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>notepad Example.java

C:\Users\kavin\OneDrive\Desktop\Typing Exercise>javac Example.java
Example.java:4: error: ')' or ',' expected
        System.out.println("a";
                              ^
1 error
```

Q13:
```java
class Example {
        public static void main (String[] args) {
                int a = 100;
                System.out.println(a);
        }
}
```

//Output//

```
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
100
```

```
Q14: class Example {
        public static void main (String[] args) {
                int a;
                System.out.println(a);
                a=100;
        }
}
```

//Output//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
A
C
E

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//

C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
A
B
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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
100
200
200
200


Q24: class Example {
        public static void main (String[] args) {
                System.out.println(true);
                System.out.println("true");
        }
}
//Output//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
true
true


Q25: class Example {
        public static void main (String[] args) {
                System.out.println(Java);
                System.out.println("Java");
        }
}
//Output//
```

```
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
```
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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\tJAVA");
        }
}
//Output//
```
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
Hellooooo     JAVA
Hellooooo                    JAVA
```

Q28: class Example {
        public static void main (String[] args) {

```
                System.out.println("Hi\tJAVA");
                System.out.println("Hello \tJAVA");
        }
}
//Output//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
Hi      JAVA
Hello   JAVA
```

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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>javac Example.java
Example.java:3: error: ')' or ',' 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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>javac Example.java
Example.java:3: error: illegal escape character
        System.out.println("\iCET\");
                       ^
Example.java:3: error: unclosed string literal
        System.out.println("\iCET\");
                     ^
Example.java:4: error: ';' expected
        System.out.println("\"institute of Computer Engineering Technology\""):
                                                               ^

3 errors
```

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//
```
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
```
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>notepad Example.java

C:\Users\kavin\OneDrive\Desktop\Typing Exercise>javac Example.java
Example.java:7: error: ')' or ',' expected
        System.out.println(x+"+"y+"="+z);
                           ^
Example.java:7: error: not a statement
        System.out.println(x+"+"y+"="+z);
                             ^
Example.java:7: error: ';' expected
        System.out.println(x+"+"y+"="+z);
                               ^
3 errors


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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
30
Xy
x+y
x20
10y


Q38: class Example {
        public static void main (String[] args) {
                int x=10,y=20;
                System.out.println(10+20+30);
                System.out.println("10+20+30");
                System.out.println(10+20+30);
                System.out.println("10+20"+30);
```

```java
                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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
60
10+20+30
60
10+2030
102030
102030
3030
102030

Q39:
```java
class Example {
        public static void main (String[] args) {
                String s1="Hello";
                System.out.println(s1);
                System.out.println(s1.concat("JAVA"));
        }
}
```
//Output//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
Hello
HelloJAVA

Q40:
```java
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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
100
200
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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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){
      System.out.println(num + " is negative number");
    } else {
      System.out.println(num + " is 0");
    }
  }
}
//Output//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
Input number - 3
3 is positive number

Q45: import java.util.*;
class Example {

```java
    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//
```
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
Enter your marks - 56
your grade is C

Q46:
```java
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//
```
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
Enter Your age -22
welcome to vote

```java
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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
Hypotenuse is5.0
```

```java
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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
Enter any number- 12
The factorial of12is39916800
```

```java
Q49: import java.util.*;
class Example{
        public static void main(String[] args){
                Scanner input=new Scanner(System.in);
                System.out.print("input 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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>java Example
input your age- 17
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//
C:\Users\kavin\OneDrive\Desktop\Typing Exercise>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
```