**Questions for Coding Game**

**Variables and data types**

public class MyClass {

    public static void main(String args[]) {

      int x=30;

      float y=70.0;

      float z=x+y;

      System.out.println(z);

    }

}

**Q: What would be the output.**

A) 70.0

B) 100  
C) Error  
D) 100.0

**A: C, /MyClass.java:3: error: incompatible types: possible lossy conversion from double to int**

**Conditionals (must contain if, else if, and else)**

import java.util.Scanner;

public class MovieTicketPrices {

  public static void main(String[] args) {

     double baseCost = 30.0;

     int numPassengers;

     Scanner scnr = new Scanner(System.in);

numPassengers = scnr.nextInt();

if (numPassengers <= 2) {

  System.out.println(" Total cost: " + baseCost);

}

else if( numPassengers >= 3 && numPassengers <10){

  System.out.println("Total cost: " + (baseCost \* 1.50));

}

else{

System.out.println("Total cost: " + (baseCost \* 2.0));

}

}

}

**Q: If numPassengers = 10 what is the output**

A) 60.0

B) 10.0  
C) 45.0  
D) 20.0

**A: A, it uses the else statement**

**Loops**

import java.util.Scanner;

public class Salery {

   public static void main(String[] args) {

      Scanner scnr = new Scanner(System.in);

      double startingSalery;

      double saleryIncrease;

      double currentSalery;

      int i;

      System.out.print("Enter starting Salery: ");

      startingSalery = scnr.nextDouble();

      System.out.print("Enter salary increase rate: ");

      saleryIncrease = scnr.nextDouble();

      currentSalery = startingSalery;

      for (i = 0; i < 5; ++i) {

         System.out.println("$" + currentSalery);

         currentSalery = currentSalery \*  saleryIncrease

      }

   }

}

**Q: If Starting salery  is 10000 and increase rate 2.5 what is the last two numbers outputted**

A) $156250.0

     $390625.0

B) 100000

     250000

C) $25000.0

     $62500.0

D) 20.0

**A: A, it uses the else statement**

**Arrays (must contain an array with primitives)**

public class Example {

 public Boolean flags[] = new Boolean[4] ;

public static void main(String[] args){

Example E = new Example();

System.out.println( "Flag 1 is " + E.flags[1] );

 }

}