Java Questions Document

Question 1: 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);
}
ANSWERS TO THE QUESTION 1:
CUP A) 70
CUP B) 100
```

CUP C) ERROR

CUP D) 100.0

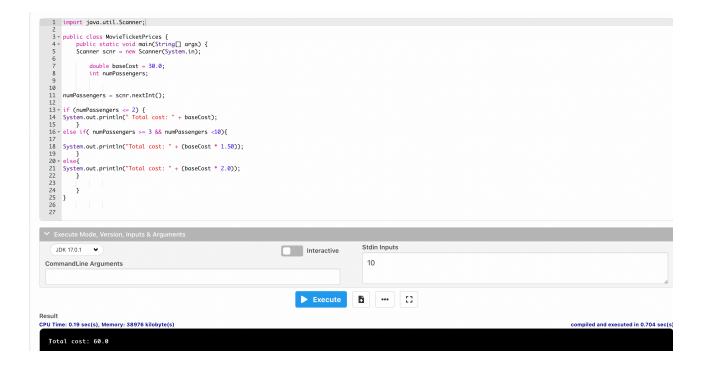
REASONING:

DIFFERENT VARIABLE TYPES CAUSE A ERROR AS Z IS A FLOAT VALUE WHILE X AND Y ARE A INTEGER VALUE.

1 2 - 3 - 4 public class MyClass { public static void main(String args[]) { int x=30; float y=70.0; float z=x=y; } System.out.println(z); } } }			
➤ Execute Mode, Version, Inputs & Arguments			
JDK 17.0.1 •	Interactive	Stdin Inputs	
CommandLine Arguments			
	Execute	6 C	
Result CPU Time: sec(s), Memory: kilobyte(s)			ed and executed in 0.285 sec(s
		сопри	ed and executed in 0.285 sec(s
/MyClass.java:1: error: class, interface, enum, or record expected Variables and data types			
1 error			

```
Question 2: Conditional Question:
public class TaxiPrice {
    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
ANSWERS TO THE QUESTION 2:
ATTACK A) 60.0
ATTACK B) 12.0
ATTACK C) 45.0
ATTACK D) 37.0
REASONING:
```

10 TRIGGERS THE ELSE STATEMENT THAT CAUSES 30 * 2.0 = 60

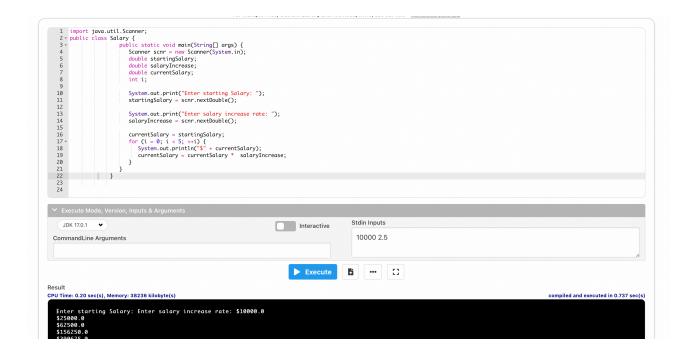


Question 3: Loop Question:

```
import java.util.Scanner;
public class Salary {
         public static void main(String args) {
           Scanner scnr = new Scanner(System.in);
           double startingSalary;
           double salaryIncrease;
           double currentSalary;
           int i;
           System.out.print("Enter starting Salary: ");
           startingSalary = scnr.nextDouble();
           System.out.print("Enter salary increase rate:
");
           salaryIncrease = scnr.nextDouble();
           currentSalary = startingSalary;
           for (i = 0; i < 5; ++i) {
             System.out.println("$" + currentSalary);
             currentSalary = currentSalary *
salaryIncrease;
```

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

ANSWERS TO THE QUESTION: ANSWER A) \$156250.0, \$390625.0 ANSWER B) 100000, 250000 REASONING: THE LOOP RUNS A TOTAL OF 5 TIMES DUE TO THE " I < 5" MAKING THE LAST TWO VALUES 156250.0 , \$390625.0 100000 & 250000.



```
Question 4: Array Question
import java.util.Scanner;
       public class test {
         public static void main(String[] args) {
           final int NUM_VALS = 4;
           int[] listOne = new int[NUM_VALS];
           int[] listTwo = new int[NUM_VALS];
           int i:
           Scanner input = new Scanner(System.in);
           listOne[0] = input.nextInt();
           listOne[1] = input.nextInt();
           listOne[2] = input.nextInt();
           listOne[3] = input.nextInt();
           listTwo[0] = input.nextInt();
           listTwo[1] = input.nextInt();
           listTwo[2] = input.nextInt();
           listTwo[3] = input.nextInt();
           for(i=0;i<4;i++){
           System.out.print(listOne[i] * listTwo[i] + " ");
           }
           System.out.println();
       }
```

import java.util.Scanner;

Q: If the Input is 1, 5, 10, 15, 2, 4, 6, 8 What is the output?"

OPTION A) 2

OPTION B) 20 OPTION C) 60 OPTION D) 120

REASONING: NA

