Quiz1

<pre>int x = 9, y = -3, z= 4; double n1 = 2.668, n2; char ch1 = 'A', ch2 = 'b'; // Unicode of A is 6; String str1 = "Quiz li Test", str2="6"; Expression</pre>	Error? No Perror Perror Perror Perror Perror	Result (if no error) 6.9 -0.25 Fales -0.75 A Quiz~'~~~3 -0.25
System.out.printf("%7.1f%n", System.out.printf("%7.1f%n", strl.indexOf("Test")+n1); 2.66% 7 + 6.66% = 13.66%	- 13.6	

Q2: Write java statements to perform the following: (4 pt)

a) Declare constant flag of type Boolean and assign True to it.

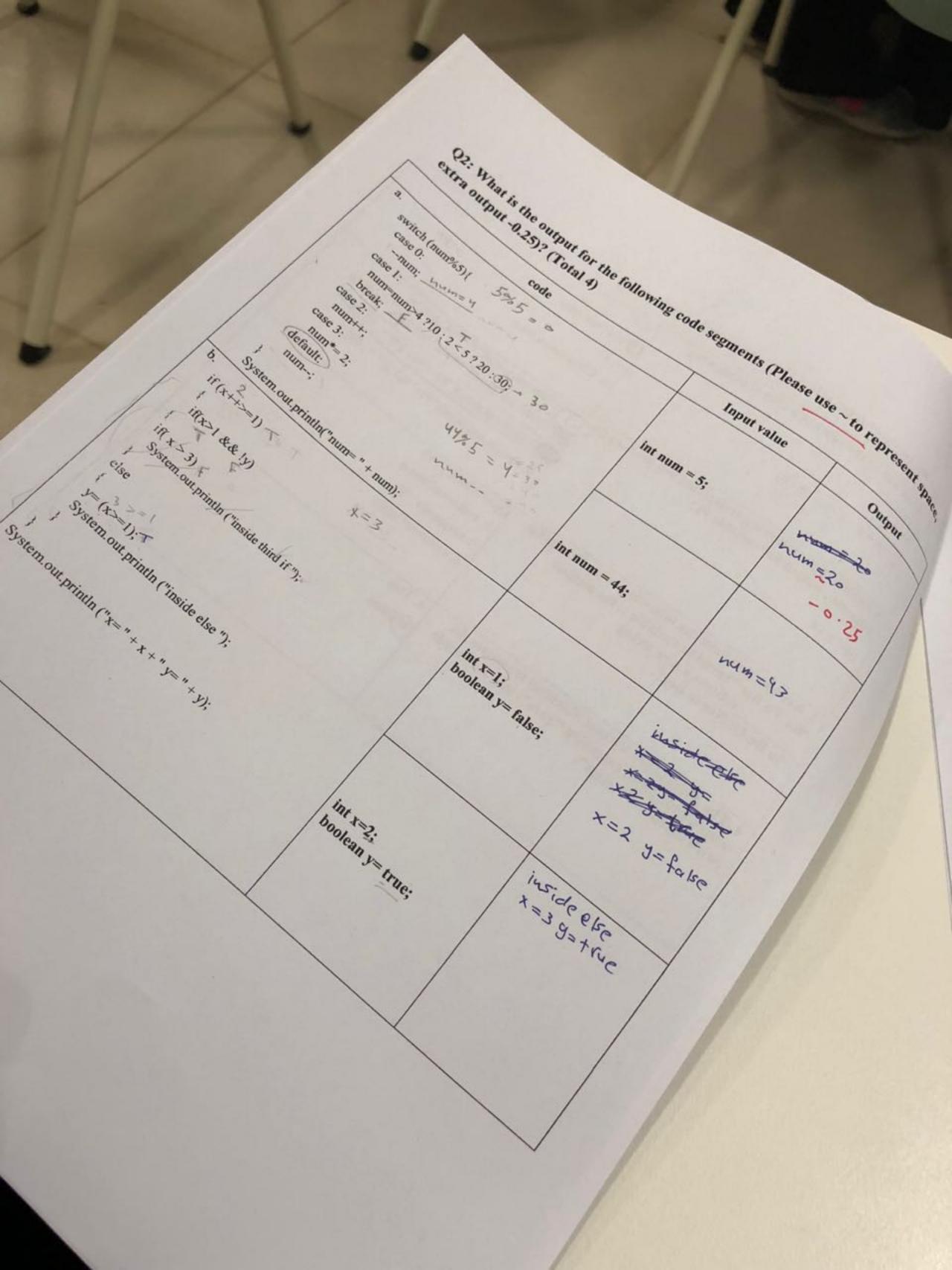
b) Convert the following mathematical equation to a java expression $\frac{y \times z}{z \times x^2} + W$

Assume you have variables price and total declared and initialized, in one statement assign the price value to total, then decrease price by 1.

Midde

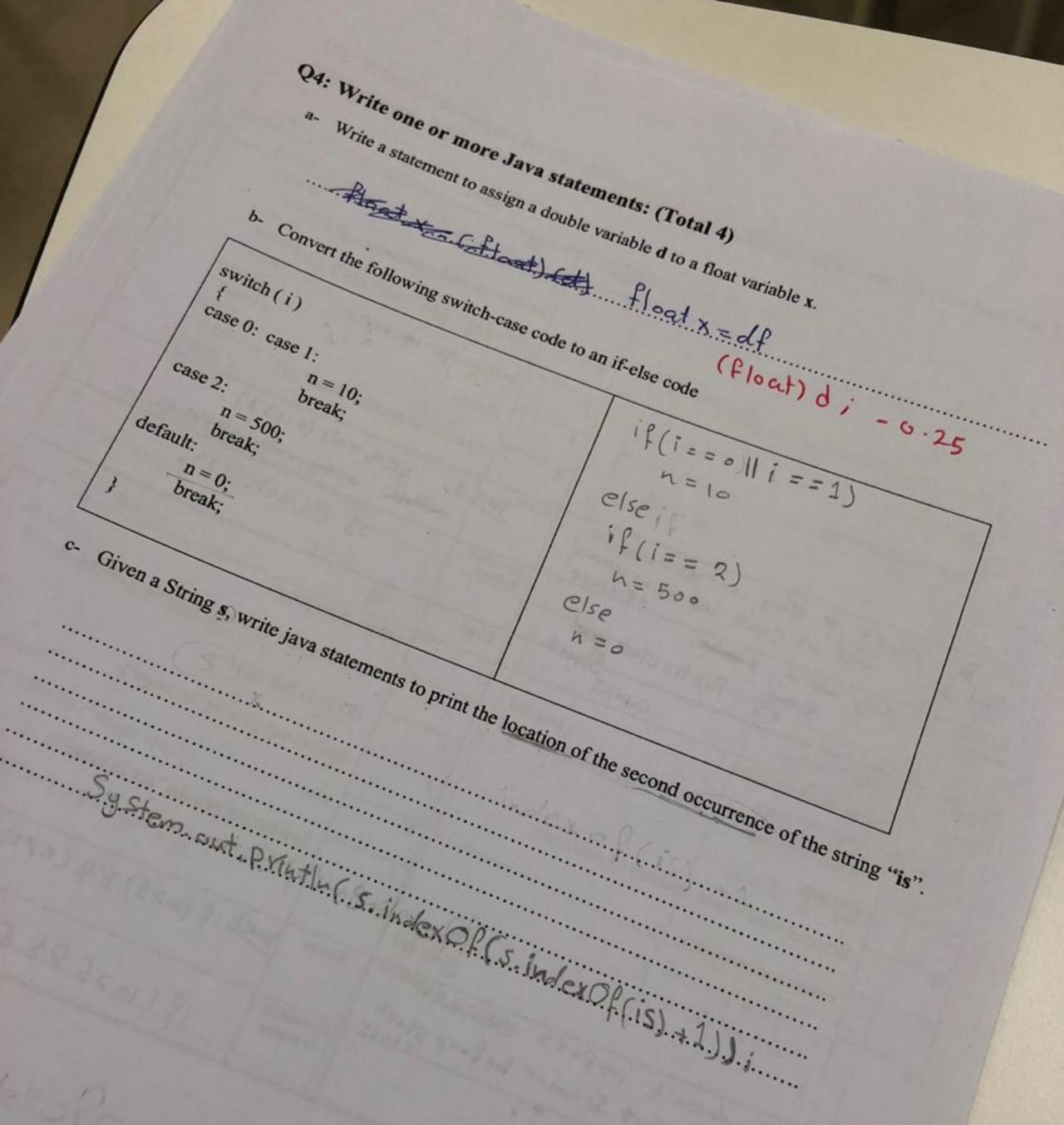
Q1: Multiple-choice: select the correct answer: (Total 3)

(b) run time error	
c. 21	
d. Compilation error	
a. System.out.printf("PI=%f',pi); ×	
System.out.printf("PI=%' %1.2f%' ",pi); *	
System.out.printf("PI=\' %1.2f\' ", PI);	
d. System.out.printf("PI=' %1.2f' ", PI);	
(a) s.replace('T', 't') b. s.toLowerCase(s) c. s.replace('t', 'T') d. s.toLowerCase()	
a. True	
6. False	



Q3: Find and correct errors in the following code segments (1 error each): (Total 4)

1	a)	Line	
	public class short {		b)
		1	public class one {
2			public static void main(String args[]) {
	public static void main(String args[]) {	2	- (String args[]) {
3	double y=10;	-	String s1="ABC", s2="Abc";
4		3	boolean test= equals(s1,s2);
	System.out.println(y);		equals(s1,s2);
5	1) double	4	if(test)
	den ore	5	System
Error B	short a va		System.out.println("Same");}}
line.	+ and hey word	me Error lin	e 3
orrection	short & Key word and we Can't use it as not	ne lin	= (S1c52)
reason	any word	26	method serves;
	1:1-	Correction or reason	
ne			51. equals (52);
	c) Shot	Line	
1	public class myClass {	Line	d)
		1	public class prog {
	public static void main(String args[]) {	2	
- in		2	public static void main(String args[]) {
111	t num;	3	
Sc	anner read = now C		if(10>5) && if(5>2)
00.	anner read = new Scanner (System.in);	4	\
nun	n=read.nextInt();		System.out.println("in range");
	cad.nextint(),	5	else
7}			
1'		6	System out printle (1)
13			System.out.println("not in range"); }
1			}
· Kun	1-0-11 0 0-1		
* '	descrit import Scanner before star	Error	1:423 · 0 · -1
sha	ald import Scanner belove du	+	line3 if (10>5) 88 (572)
		SS	
	Java UTII.	Correction	
Hub	lic class my Class	or reason	.0
			if (10>5.88 5>2)



```
05: Write program: (Total 5)
```

```
Write a complete program that reads two strings S1 and S2 from the user and print a new string made of the first
two characters of S1 and the last two characters of S2. If either string has only one character, use '#' for its
S1="day", S2="night" -> "daht"
```

12- 52 concet (4) 3

16 (52. longitud 2) 1

52 52 Carried ("H")3

S1="a", S2="be" → "a#be"

Public class imPort Java. util. *;

Public class mid1 {

Public static Void main (String args []) [

Scanner in = new Scanner (System in); String SI, SZ;

System.out. Println ("enter tow word with space between them");

51 = in next();

52 = in. next ();

if (51. length <2) [

51 = S1. concat ("#"); -0.25 SZ = SZ. substring(0,2); we asked for last 2 of SZ

if (S2. length (2) [

52 = 52. concet ("#");

51 = 51. Substring (0.2);

if (51. Length)=2 98 52. length)=2) {

S1 = S1. Substring(0:2)3

52 = 5. substring (0 12) i - 0.25

System.out. Println(51+52);

Quiz 2

Section Number:

Q1: Multiple choice (3pt, each 0.75)

```
3.75
```

强

```
for (int i = 0; i<=4; i++)
  for ( int n =0; n<2; n++)
  {
    System.out.println("Quiz");
    n--;
}</pre>
```

String str = "Done";

While (x > 0) $\{x/=2; \times \frac{10}{2} = 5/(x - \frac{5}{2} = 2.1)$ if (x==5)continue;

System.out.print(str);

How many times the statement System.out.println("Quiz") is executed?

A. 10 times.

B. 8 times.

C. 2 times.

D. Infinite loop.

How many times the statement System.out.print(str) is executed?

A. 0 times.

B. 3 times.

C. 4 times

D. Infinite loop.

Which of the following is a valid array declaration?

A. int[] Arr = new int(4);

B. int[] Arr = new int[4];

C. int[] Arr = new Arr(4);

D. int[] Arr = new Arr[4];

What will be the output of the following code

Char [] Arr = { 'a', 'b', 'c'};

System.out.println(Arr[Arr.length]);

A. compiler error

B. run time error

C. c

D. 3

KING SAUD UNIVERSITY COLLEGE OF COMPUTER AND INFORMATION SCIENCES COMPUTER SCIENCE DEPARTMENT

CSC 111: Introduction to Programming with Java

Quiz 2

1st Semester 1439-1440

Q2: What is the output for the following code (Please use to represent space, extra output -0.25)? (3.5 pt)

code 12	Output
int [] array = {12,15,17,19};	
int [] index = $\{2, 3, 0, 1\}$;	
for(int i =0; i<=3; i++)	
array[index[i]]=array[i]; , ~	
for(int i =0; i<4; i++)	-1
System.out.println(array[i]);	17/19/12/15
int num=20, sum=0;200	
while (num>15)	Num=14~ Sum=43
/{sum+=num; }	114M=11~ 54M=95
for (int k =1; k<3; ++k)	The state of the s
€ sum+=k; 20 +1=	
num-=k;	
3	
13	
System.out.println("num="+num+" sum="+sum);	

Q3: write java statements that continue to read integer numbers until the average value of these numbers boolean x = fake; becomes greater than 50. (3.5 pt) booleanx falses int x 10 10 14 TE While CHOT & 111 int connter = 0 ; System, out. Prolutta ("Ener number"); int num = 0 while (x) { int num = inPatonext Int (); System. out. Print In ("Enter number"); int Guter = 03 int num = inPut. next [nb()? with 12 Sum = num +num 3 counter ++ ; num=num+num Cornter ++ 3. double averege = (num /double) (conter)); double asserege = (num/(double)(counter)); if (averege > 50) { 15 (averege>= 50) 2 x = +rue; X=+rue ; } Continue; 3 11 end white

Mid 2

1: multiple choice / State if the following statements are True or False: [3 pts. =0.75]

Statem		70
wo arrays are considered equal if all corrected and matter if they have the same size of	esponding elements in both arrays are	True/False
The continue statement skips the remaining proceeds with the next iteration, if any.		True 1
A return statement in a value-returning meth	nod can return many values.	Fake
This loop executes infinite times	ane	150
<pre>int a=8; io { a = a*2;</pre>		me
- (a>=8);		

: What is the output for the following code segments: [3 pts.] (1.5+1.5)

ites:

- Please use to represent space.
- Any extra output is -0.25

a- 100)30 100-20	Output	
int digit = 100; %		
while (digit > 30) {	80	
while (digit > 30) { if (digit == 60) {	60	
if (digit == 60) {	30	
system.out.println(digit);		
(continue;)		
if (digit < 40)		
digit = digit - 20;		
system.out.println(digit);		
}		
b-	Innut	
	Input	Output
public static void main(string[] args) {		
double x=read.nextDouble();		
system.out.println(method1(x));	223.00	
1	90.1	90.0
public static double method1 (double x) {		
double result; 110.7 (100 X		
001 (100		
if (Math.abs(x)<100)		
result=Math.round(x);		
else		
result=Math.floor(x);	-110.7	-111-0
-110.		
return result;		
1 110.0		
air line		
- 110.1		
-114:0		4/6

partment of Comp

Find and correct errors in the following code (there are 4 errors): [4 pts.] (0.5 find 0.5 correct the error)

e: Do not remove any line.

total 306

```
import java.util.Scanner;
  public class errors ()
  public static void main(string[] args) {
  Scanner read= new Scanner (system.in);
int a=2, b=3, total;
6. int[] list=new int[30];
7. char ch1='A';
    boolean result;
8.
     for (int i=0; i<list.length; i++)
9.
10.
             list[i*2] = read.nextInt();
        result= isLetter(ch1);
11.
       system.out.println(ch1 + " is letter?" + result);
12.
13.
       sum(a,list);
14.
      public static void sum(int x, int y) {
15.
        return x+y;
16.
17.
        }}
ne
               Error
                                                 Correction
النوع الله اربله ما بطلبي حق ال الما و الله ما يطلبي حق الله الربله ما يطلبي حق الله الله عاملة
                               sum (a,b);
    the type in conter
    is different
    Type of the method
                               Public static int sun (int x, int y) {
      النوع عقعا لحاملا وهي قرجع
      Syntax of
                                 The type of result is borlean
                                Should the value that return teles
     the method
     Chamberton class 11 bo la
                               result = Character is Letter (ch1);
     Don't use the return
                                testal = sum (a,b);
    vertue in variety to by Privt st
                                 Systemount- prit (tetal) 3
     ما استفاد من القدمة الله
زممت (وصر من الأساس مع
                                  System court-print (sum(ab)); (3)
```

a- Assume that you have

Assume that you have two integer numbers x and y that already declared and initialized. Write a one statement to compare x and y and assign the larger number in variable maximum. (1 pt)

maximum = Mathomax (x, y);

b- Complete the below code by writing the required statements using the following methods: (2.5 pt)

```
Method Name

fillarray

fill out the values of every element from the user

Returns the middle element of array. The returned value will be printed in the main method.

main

use the two defined methods to:

fill the array

print the middle element of the array
```

c- Write java statements that read 3 passwords of type string, and print the password as stars. (1.5 pt)

System. out. Print ("Enter the Pass way d.")

String Password = read. next.()

For (int. 1:20.1) | Password | length.() | 1+t.) |

System. out. Print ("* ")

Systemoonto Println ();

Write a complete program: [5 pts.]

e a program that prompts the user to enter a number of patients and then for every patient entered determines hat patient has high/low/average blood pressure. The program should work as follows:

- Read the number of patients in the main method.
- For each patient, read name and blood pressure.
- Call and print a user -defined method named checkPressure that returns 3 possible values: low / high/

Blood pressure	Low	Average	
	Less than or equal 121	Between 122 and 146	High
import java.	util. Scanner ;		Greater than or equal 147
Public class	scanner ;	Sample Run:	
class	Patients s	Enter numb	
Static Scann	2	Patient#1	of patients>> 2
Pula !	or input = new Scanners	(System in) Amal	Ine:
Static vo	old main (4.	Enter your bl	ood pressure.
on out ou		prood pre	SSUPP.
t number ace	t ("Enter number of ents = input. next In	Patient#2 Enter your nam	is low
tring name = " "	ents = input. next In	Norah Enter	
+ Pressure = 13	y de rottille	Enter your blo	od pressure:
TOY INT		- Pres	ssure is average
stem. out	0 111 / OF 12	tients ; i++) s	- Tage
name = input.	Println (" Enter y	tow no.	
- input.	next();	, wwe : ")!	
1stem.out. Pris	attach e		
ere a la	Enter your	blood a	
- source - influ	ntln (" Enter your t-next Int ();	a lressure ");
stemiout o.	1100		CK Pressure (Pressure)) 5
Pan	IT (Your blood Pr	essive is "	
		+ Chec	Ktressive (fressure) :
-1-11			
. Static Striv	ng Check Pressure	(Int 11 10	
g ave = "low") ONE 2 = " Average	oll Dlood tress	we) {
ood Pressure (=	1011	-) ove 3 = "High	" ;
	= 121)		
urn ave;			
(blood Pressure)	>= 122 & & blood P.	ressure < = 146)	6/6
return a			
hood ressi	re > = 147)		
	ave 3 j	3	