

CS111 Summer 2019 LAB QUIZ 1

NAME _____ CUNYID _____

SECTION 1 – DATA TYPES – 3 Points each

```
int main()
```

```
{
```

```
    double d = 4.2;
```

```
    double dNum = 2.0;
```

```
    int i = d;
```

```
    char c = 65;
```

```
    cout << i << " , " << d << " , " << c << endl;
```

1) Output of statement above

4, 4.2, A

```
    i++;
```

```
    cout << i %2 << endl;
```

2) Output of statement above

1

```
    int z = 0;
```

```
    cout << d / z << endl;
```

3) Output of statement above

Error/infinite

```
    int j = 1;
```

```
    int k = 2;
```

```
    j = k; k = j; cout << j << " , " << k << endl;
```

4) Output of statement above

2, k

```
    cout << (((dNum/2) * (4.5))+1)/2 << endl;
```

5) Output of statement above

2.75

```
cout << "H" << "E"  
      << "L" << "L" << "O"  
      << "W" << "O" << "R"  
      << "L" << "D" << "!";
```

6) Output of statement above....

HELLOWORLD!

```
int arr[65];
```

The statement above declares an 6a)array of 6b) 65 6c) integers _

```
return 0;
```

```
}
```

7) What does the program below attempt to do?

It prints the decimal portion of a decimal. E.g. 12456.78 → .78

```
#include "pch.h"
```

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    double d = 0;
```

```
    cout << "Enter a decimal value" << endl;
```

```
    cin >> d;
```

```
    int i = d;
```

```
    cout << d - i << endl;
```

```
    return(0);
```

```
}
```

SECTION 2 – SYNTAX – 4 Points

Four errors in the program below

- a) main must be type int
- b) a function needs parenthesis
- c) (int j) an variable cannot be declared twice in the same block
- d) Needs to return a value (once you fix the function type).

void main

```
{  
    return (0);;;;  
    int i = 9;  
    int I = 10;  
    int j = 11;  
    int j = 11;  
    cout << " Hello World!" << endl;  
}
```

SECTION 3 – Programming – 5 points each (you only have to do 2 out of 3 below)

1) Celsius to Fahrenheit - Write a program that asks the user to enter a Celsius number. The program then outputs the temperature as a Fahrenheit value.

```
int main()
{
    cout << "Please enter a Centigrade value";
    cout << " and I will output it as a Farenheit value" << endl;
    double centigrade;
    cin >> centigrade;
    //C == > F = (C × 9 / 5) + 32
    cout << "The Farenheit value is: " <<
        (centigrade * 9 / 5) + 32 << endl;
    return(0);
}
```

2) First Name, Last Name – Write a program that asks the user to enter their first name and last name. The program then outputs their name as Last Name, First Name. For example:

Program → “Enter your First Name followed by your “Last Name”

User → “Fred” “Washington”

Program → “Washington, Fred”

```
int main()
{
    char FirstName[50],LastName[50];
    cout << "Enter your First Name followed by your Last Name" << endl;
    cin >> FirstName;
    cin >> LastName;
    cout << LastName << ", " << FirstName << endl;
    return(0);
}
```

3) Average of two decimals. Write a program that asks the user to enter two decimal numbers and then display the average of these numbers.

Program → "Enter two decimals"

User → 1 2

Program → 1.5

```
int main()
{
    double d1, d2;
    cout << "Enter Two Decimals" << endl;
    cin >> d1;
    cin >> d2;
    cout << (d1 + d2) / 2 << endl;
    return(0);
}
```

ASCII CHART

Dec	Hex	Oct	Chr	Dec	Hex	Oct	HTML	Chr	Dec	Hex	Oct	HTML	Chr	Dec	Hex	Oct	HTML	Chr
0	0	000	NULL	32	20	040	 	Space	64	40	100	@	@	96	60	140	`	`
1	1	001	Start of Header	33	21	041	!	!	65	41	101	A	A	97	61	141	a	a
2	2	002	Start of Text	34	22	042	"	"	66	42	102	B	B	98	62	142	b	b
3	3	003	End of Text	35	23	043	#	#	67	43	103	C	C	99	63	143	c	c
4	4	004	End of Transmission	36	24	044	$	\$	68	44	104	D	D	100	64	144	d	d
5	5	005	Enquiry	37	25	045	%	%	69	45	105	E	E	101	65	145	e	e
6	6	006	Acknowledgment	38	26	046	&	&	70	46	106	F	F	102	66	146	f	f
7	7	007	Bell	39	27	047	'	'	71	47	107	G	G	103	67	147	g	g
8	8	010	Backspace	40	28	050	((72	48	110	H	H	104	68	150	h	h
9	9	011	Horizontal Tab	41	29	051))	73	49	111	I	I	105	69	151	i	i
10	A	012	Line feed	42	2A	052	*	*	74	4A	112	J	J	106	6A	152	j	j
11	B	013	Vertical Tab	43	2B	053	+	+	75	4B	113	K	K	107	6B	153	k	k
12	C	014	Form feed	44	2C	054	,	,	76	4C	114	L	L	108	6C	154	l	l
13	D	015	Carriage return	45	2D	055	-	-	77	4D	115	M	M	109	6D	155	m	m
14	E	016	Shift Out	46	2E	056	.	.	78	4E	116	N	N	110	6E	156	n	n
15	F	017	Shift In	47	2F	057	/	/	79	4F	117	O	O	111	6F	157	o	o
16	10	020	Data Link Escape	48	30	060	0	0	80	50	120	P	P	112	70	160	p	p
17	11	021	Device Control 1	49	31	061	1	1	81	51	121	Q	Q	113	71	161	q	q
18	12	022	Device Control 2	50	32	062	2	2	82	52	122	R	R	114	72	162	r	r
19	13	023	Device Control 3	51	33	063	3	3	83	53	123	S	S	115	73	163	s	s
20	14	024	Device Control 4	52	34	064	4	4	84	54	124	T	T	116	74	164	t	t
21	15	025	Negative Ack.	53	35	065	5	5	85	55	125	U	U	117	75	165	u	u
22	16	026	Synchronous idle	54	36	066	6	6	86	56	126	V	V	118	76	166	v	v
23	17	027	End of Trans. Block	55	37	067	7	7	87	57	127	W	W	119	77	167	w	w
24	18	030	Cancel	56	38	070	8	8	88	58	130	X	X	120	78	170	x	x
25	19	031	End of Medium	57	39	071	9	9	89	59	131	Y	Y	121	79	171	y	y
26	1A	032	Substitute	58	3A	072	:	:	90	5A	132	Z	Z	122	7A	172	z	z
27	1B	033	Escape	59	3B	073	;	;	91	5B	133	[[123	7B	173	{	{
28	1C	034	File Separator	60	3C	074	<	<	92	5C	134	\	\	124	7C	174	|	
29	1D	035	Group Separator	61	3D	075	=	=	93	5D	135]]	125	7D	175	}	}
30	1E	036	Record Separator	62	3E	076	>	>	94	5E	136	^	^	126	7E	176	~	~
31	1F	037	Unit Separator	63	3F	077	?	?	95	5F	137	_	_	127	7F	177		Del