

Assignment#1

1. **How may the float variables temp, weight, and age be defined in one statement?**

```
{  
    float temp,weight,age;  
}
```

2. **How may the int variables months, days, and years be defined in one statement, with months initialized to 2 and years initialized to 3?**

```
{  
    int days,months=2,years=3;  
}
```

3. **Write assignment statements that perform the following operations with the variables a, b, and c.**

A) **Adds 2 to a and stores the result in b.**

```
#include <iostream>  
using namespace std;  
int main()  
{  
    int a,b;  
    b=a+2;  
    cout<<"B is "<<b;  
    return 0;  
}
```

B) **Multiplies b times 4 and stores the result in a.**

```
#include <iostream>  
using namespace std;  
int main()  
{  
    int a,b;  
    a=b*b*b*b;  
    cout<<"A is "<<a;  
    return 0;  
}
```

C) **Divides a by 3.14 and stores the result in b.**

```
#include <iostream>
```

```
using namespace std;
int main()
{
    int a,b;
    b=a/3.14;
    cout<<"B is "<<b;
    return 0;
}
```

D) **Subtracts 8 from b and stores the result in a.**

```
#include <iostream>
using namespace std;
int main()
{
    int a,b;
    a=b-8;
    cout<<"A is "<<a;
    return 0;
}
```

E) **Stores the value 27 in a.**

```
#include <iostream>
using namespace std;
int main()
{
    int a=27;
    cout<<"A is "<<a;
    return 0;
}
```

4. **Is the following comment written using single-line or multi-line comment symbols?**

// This program was written by M. A. Code writer

Answer:

Single-line comment symbol.

5. **Modify the following program so it prints two blank lines between each line of text.**

```
#include
<iostream> using
namespace std; int
main()
```

```
cout << "Two mandolins like creatures in  
the"; cout << "dark"; cout << "Creating  
the agony of ecstasy.";  
  
cout << " - George Barker";  
return 0;
```

Answer:

```
#include <iostream>  
using namespace std;  
int main()  
{  
cout << "Two mandolins like creatures in the";  
cout << " dark";  
cout << " Creating the agony of ecstasy";  
cout << " George Barker";  
return 0;  
}
```

7. What will the following programs print on the screen?

Note: endl is used to for a new line. It is same as "\n"... Don 't put yourself in confusion

A) **#include**
<iostream> using
namespace std; int
main()

```
int freeze = 32, boil = 212; freeze =  
0; boil = 100; cout << freeze << endl  
<< boil << endl; return 0;
```

Answer:

0
100

B) **#include**
<iostream> using
namespace std; int
main()

int x = 0, y = 2;
x = y * 4;
cout << x << endl << y << endl;
return 0;

Answer:

8
2

C) **#include**
<iostream> using
namespace std; int
main()

cout << "I am the incredible";
cout <<
"computing\nmachine"; cout
<< "\nand I will\namaze\n";
cout << "you."; return 0;

Answer:

I am the incrediblecomputing
Machine
And I will
amaze
you.

```

D)#include
<iostream> using
namespace std; int
main()

cout << "Be careful\n"; cout <<
"This might/n be a trick ";cout
<< "question\n"; return 0;

```

Answer:

Be careful
This might/n be a trickquestion

Find the Error

14. There are a number of syntax errors in the following program. Locate as many as you can.

/ What's wrong with this program? /

```

#include iostream
using namespace std;
int main();
int a, b, c
a=3
b=4
c=a+b
Cout < "The value of c is %d" < C•
return 0;

```

Answer:

In first line:

/* What's wrong with this program? */

In second line “< or >”:

#include <iostream>

using namespace std;

In fourth line ; is not used after main():

```
int main()
```

```
{
```

In next three lines semi-colon(;) is missing;

```
    int a,b,c;
```

```
    a=3,b=4;
```

```
    c=a+b;
```

In this line cout and c must be in small letter and < it must be used as << and statement must be end with ;.

```
    cout<<"The value of c is"<<c;
```

```
    return 0;
```

```
}
```
