C++ Assignment Solutions | Week1

1. How can you output **“Physics”** and **“Wallah”** in two different lines in C++?

Solution:

```cpp
#include <iostream>

using namespace std;

int main() {

    cout << "Physics" << endl;
    cout << "Wallah" << endl;

    return 0;
}
```

2. Print 10 using 2 positive numbers less than 6 in C++ as output.

Solution:

```cpp
#include <iostream>

using namespace std;
int main() {
    cout << 5 + 5 << endl;
}
```

3. How much space does the following data types take?
    - int
    - bool
    - float

Solution:

int	4 bytes
bool	1 byte
float	4 bytes

4. What is the output of this program?

```
int main() {
    int a = 4;
    int b = 5;
    a++, b--;
    cout << ++a << " " << b--;
}
```

Solution:

```
6 4
```

5. WAP to find the circumference of a circle with radius 10 in C++.

Solution:

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

    int r = 10;
    float pi = 3.14;
    float circumference = 2 * pi * r;
    cout << circumference;
    return 0;
}
```

6. How many of these can be a variable name ?
    - 01Pwskills
    - _FLOAT
    - int
    - FLOAT
    - You will succeed

Solution:

Only 2 of the above can be a variable name.

First option is **incorrect** since a variable name cannot start with a number.

2nd option is **correct** because a variable name can start with underscore.

3rd option is **incorrect** as a variable name because int is a reserved keyword and cannot be used as a variable name.

4th option is still **correct** because C++ is a case sensitive language. Here FLOAT and float are treated differently therefore FLOAT is not a reserved keyword hence can be used as variable name.

Last option is **incorrect** because no variable can have spaces in between.
