Day 2 – C++ Workshop

```
// String is an array of characters.
// We
// When using the char data type, when we input from the users characters,such as when developing a calculator, we need to insert ' (character) '. It is mandatory.
```

```
#include <iostream>
using namespace std;
// Developing A Program To Print Electricity Bill;
int main () {
int myUnits;
float TotalBill;
while (true) {
cout << "Welcome!" << endl;
cout << "Kindly Enter Your Consumed Units: ";
cin >> myUnits;
// 1 unit = 20 rupees
if (myUnits <= 50) {
TotalBill = myUnits*20;
cout << "Your Total Bill Is: " << TotalBill << " rupees ";
}
else if (myUnits > 50&&myUnits <= 100){
TotalBill = (myUnits*20*105/100);
cout << "Your Total Bill Is: " << TotalBill << " rupees ";
}
else if (myUnits > 100&&myUnits <= 150) {
TotalBill = (myUnits*20*107/100);
cout << "Your Total Bill Is: " << TotalBill << " rupees ";
}
else if (myUnits > 150) {
TotalBill = (myUnits*20*110/100);
cout << "Your Total Bill Is: " << TotalBill << " rupees " << endl;
}
}
return 0;

}
```

```
#include <iostream>
using namespace std;
// Developing A Program To Find Combined Resistance Of A Series Circuit;
```

```
int main () {
int myResistance;
int TotalResistors;
int Total;
int sum = 0;
while (true) {
cout << "Welcome!" << endl;
cout << "Kindly Enter The # Of Resistors You Want In The Series: ";
cin >> TotalResistors;
int x = 1;
while (x <= TotalResistors) {
cout << "Enter The Resistance Of Each Resistor: ";
cin >> myResistance;
sum = sum + myResistance;
x++;
}
Total = sum;
cout << "The Combined Resistance Of The Circuit Is: " << Total << " ohms " << endl;
}
return 0;
}
```

```
#include <iostream>
using namespace std;
// Developing A Program To Output Multiplication Table;
int main () {
int myInput;
int multiple;
int Answer;
int myMultiple;
while (true) {
cout << "Kindly Enter A Number (Can Be Any Integer): ";
cin >> myInput;
cout << "Kindly Specify The Multiple Till Which To Output: ";
cin >> myMultiple;

for (multiple = 1; multiple <= myMultiple; multiple++) {
Answer = myInput*multiple;
cout << myInput << " * " << multiple << " = " << Answer << endl;
}
}
return 0;
}
```

```
#include <iostream>
using namespace std;
// Developing A Program To Print Patterns
int main () {
```

```
int myInput;
cout << "Kindly Enter The Number Of Rows To Print: ";
cin >> myInput;
for (int i = 1; i <= myInput; i++) {
for (int j = 1; j <= i; j++){
cout << "* ";
}

cout << endl;
}
}
```

```
#include <iostream>
using namespace std;
// Developing A Program Using if and if-else Statements;
int main () {
int myInput;
while (true) {
cout << "Kindly Enter A Number: ";
cin >> myInput;
if (myInput%3==0&&myInput%5==0) {
cout << "Fizz Fuzz" << endl;
}
else if (myInput%5==0) {
cout << "Fizz" << endl;

}
else if (myInput%3==0) {
cout << "Fuzz" << endl;
}
else if (myInput%3!=0||myInput%5!=0||myInput%3!=0&&myInput%5!=0) { // The modulus function does NOT accept float or double data types. We can use typecasting to handle these problems.
cout << "The Number Ain't Divisible By None cuzz" << endl;
}
}


}
```