**Week 2: ASSIGNMENT**

* Participant Check-in: reviewing doubts from Week 1
* Learning Content:

Programming Fundamentals:

1. Data-types
2. Operators
3. Conditionals
4. Loops

Q1 Write a c++ program to convert degree into Fahrenheit. (Input is required from user)

Q2 Predict the output of following C program

#include <stdio.h>

int main()

{

char a = '12';

printf("%d", a);

return 0;

}

Explain for the same.

Q3 Write a c++ program to compare two numbers.Display a message for equal and unequal cases.

Q4 Write a c++ program to find Maximum and minimum of two numbers using any loop or condition.

Q5 Program to divide an integer by 4 without using ‘/’ operator.

Q6 Write a c++ program to display first 100 natural numbers and their sum using loops.

Q7 Write a program in C++ to find prime number within a range.   
Input number for starting range: 1  
Input number for ending range: 100

Q8 Design a c++ program to perform basic opeartion calculations such as

1 Addition

2 Subtraction

3 Multiplication

4 Division (THIS IS A SMALL PROJECT ON A BASIC CALCULATOR)

Q9 Obtain factorial of a function without using recursion.

Q10 Write a C++ program that checks if a number is palindrome or not is as follows.