Assignment 1

Provide the output of the following three programs.

1. **Program 1**

```c
#include <stdio.h>

int main () {

    int n[5];
    int i,j;

    for ( i = 0; i < 5; i++ ) {
        n[ i ] = i + 100;
    }

    for (j = 0; j < 10; j++ ) {
        printf("Output[%d] = %d\n", j, n[j] );
    }

    return 0;
}
```

2. Program 2

```c
#include <stdio.h>

int main () {

   int n[5];
   int i,j;

   for ( i = 0; i < 5; i++ ) {
      n[i] = i*i;
   }

   for (j = 0; j < 5; j++ ) {
      printf("Output[%d] = %d\n", j, n[j]);
   }

   return 0;
}
```

3. Program 3

```c
#include <stdio.h>

int main () {

   int f[5];
   int i, j;

   f[0] = 1;

   for ( i = 1; i < 5; i++ ) {

      f[i] = f[i-1]*i
   }

   for (j = 0; j < 10; j++ ) {
      printf("Output[%d] = %d\n", j, f[j] );
   }

   return 0;
}
```