R1: C Programming Noman Rafiq

Module: R1: C Programming Section: Intro to C Task: 2's Complement

Task 1.1 Two's Complement of 16 bit signed numbers

Code Snippet:

```
#include <stdio.h>
void decToBin(int dec) {
   for (int bit = 15; bit >= 0; bit--) {
       int k = (unsigned int)dec >> bit;
       printf("%d", (k & 1) ? 1 : 0);
}
   printf("\n");
int main(void) {
int n;
printf("Please Enter a Number: ");
scanf("%d", &n);
 decToBin(n);
// 2's Complement
short complement = \simn + 1;
printf("Two's Complement: ");
for (int bit = 15; bit >= 0; bit--){
       printf("%d", (complement >> bit) & 1);
   return 0;
}
```

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Output:

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