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| ROLL NO | 22R21A05P6 |
| CLASS AND YEAR | CSE-D 4th YEAR 1st SEM |
| WEEK NUMBER | WEEK 2 |

PROBLEM STATEMENT: Write a C program that contains a string with a value "Hello World". The program should AND, OR and XOR each character in the string with 127 and display the result.

PROGRAM:

```
#include<stdio.h>
#include<string.h>
int main() {
  char *str = "Hello World";
  char str1[12], str2[12], str3[12];
  int i, len;
  len = strlen(str);
  strcpy(str2, str);
  for(i = 0; i < len; i++) {
    str1[i] = str[i] & 127;
    printf("%c", str1[i]);
  }
  str1[len] = '\0';
  printf("\n");
  printf("%s\n", str2);
  for(i = 0; i < len; i++) {
     str2[i] = str2[i] | 127;
    str3[i] = str2[i] ^ 127;
     printf("%c", str3[i]);
  }
  str3[len] = '\0';
  printf("\n");
  return 0;
}
```

Output:

```
Hello World
Hello World
****
```