EXPERIMENT NO.6

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1) Naive String Matching Algorithm
Program:-
#include <stdio.h>
#include <string.h>
void naiveStringMatch(char text[], char pattern[]) {
  int m = strlen(pattern);
  int n = strlen(text);
  for (int i = 0; i \le n - m; i++) {
     int j;
     for (j = 0; j < m; j++) {
       if (text[i + j] != pattern[j])
          break;
     }
     if (i == m) {
       printf("Pattern found at index %d\n", i);
     }
  }
}
int main() {
  char text[] = "ABABDABACDABABCABAB";
  char pattern[] = "ABABCABAB";
  printf("Text: %s\n", text);
  printf("Pattern: %s\n", pattern);
  printf("Occurrences:\n");
  naiveStringMatch(text, pattern);
  return 0;
}
Output:-
PS C:\TurboC++\Disk\TurboC3\BIN> gcc Naive.c -o Naive
PS C:\TurboC++\Disk\TurboC3\BIN> ./Naive
Text: ABABDABACDABABCABAB
Pattern: A
Occurrences:
Pattern found at index 0
 attern found at index 2
 attern found at index 5
 attern found at index 7
Pattern found at index 10
Pattern found at index 12
 Pattern found at index 15
Pattern found at
```