## **EXPERIMENT NO.12**

## 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 (j == 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:-

/tmp/kSGs64t7x6.o

Text: ABABDABACDABABCABAB

Pattern: ABABCABAB

Occurrences:

Pattern found at index 10

=== Code Execution Successful ===