

/*3) Program to check whether a given pattern string is present or not in the given text string using Brute Force pattern matching technique (Practice Program).*/

```
#include<stdio.h>
#include<string.h>

int pattern_matching(char text[],char pattern[])
{
    int j,n,m;
    n=strlen(text);
    m=strlen(pattern);

    for(int i=0;i<=n-m;i++)
    {
        j=0;
        while(j<m && text[i+j]==pattern[j])
            j++;

        if(j==m)
            return i;
    }
    return -1;
}

void main()
{
    char text[20],pattern[20];
    printf("enter text string \n");
    gets(text);
    printf("enter pattern string \n");
    gets(pattern);

    int flag=pattern_matching(text,pattern);
    if(flag!=-1)
        printf("pattern not present in given text \n");
    else
        printf("pattern is present in given text at position %d \n",flag);
}
```

```
C:\Users\Prashanth\Documents\ADA LAB>gcc -o ob pattern_match.c
```

```
C:\Users\Prashanth\Documents\ADA LAB>ob
```

```
enter text string
```

```
hello world
```

```
enter pattern string
```

```
world
```

```
pattern is present in given text at position 6
```

```
C:\Users\Prashanth\Documents\ADA LAB>ob
```

```
enter text string
```

```
hello world
```

```
enter pattern string
```

```
word
```

```
pattern not present in given text
```

```
C:\Users\Prashanth\Documents\ADA LAB>
```