

Experiment no – 07(a)

Aim: Write a program to extract the portion of a character string and print the extracted part.

Algorithm:

- i. Start
- ii. Enter index start
- iii. Enter index last
- iv. Print result
- v. Stop

Code:

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
void demo(char*s,int start,int end)
{ int
i;
for(i=start;i<=end;i++)
printf("%c",s[i]);
} int
main()
{ printf("03-Sarabjeetsingh.\n");
char str[100]="NAVI MUMBAI";
int s,e;
printf("Enter the Start Index:");
scanf("%d",&s);
printf("Enter the Last Index:");
scanf("%d",&e);
if(e>strlen(str) ||(s>strlen(str)))
printf("The indeex's starting or ending value is out of range ");
else demo(str,s,e); return 0;
}
```

Output:

```
03-Sarabjeetsingh.  
Enter the Start Index:3  
Enter the Last Index:5  
I M  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

Experiment no – 07(b)

Aim: Write a program to find the given string is palindrome or not.

Algorithm:

- i. Start
- ii. Check “hello” = palindrome
- iii. If true then print is a palindrome
- iv. If false then print is not a palindrome
- v. Check “madam”= palindrome
- vi. If true then print is a palindrome
- vii. If false then print is not a palindrome
- viii. Stop.

Code:

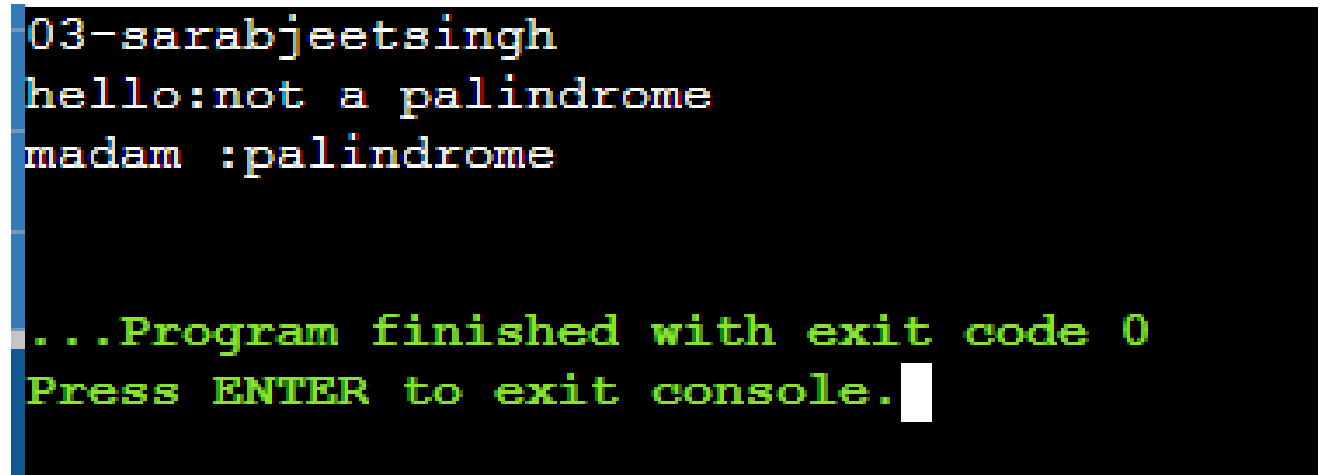
```
#include<stdio.h>  
  
#include<string.h> void  
isPal(char s[])  
{ int l = 0; int h =  
strlen(s)-1;  
while(h>l)  
  
{  
if(s[l++]!=s[h--])  
{  
printf("%s: not a palindrome\n",s);  
return;  
}
```

```

}
}
printf("%s :palindrome\n",s);
} int
main()
{ printf("03-
sarabjeetsingh\n");
isPal("hello");
isPal("madam");    return 0;
}

```

Output:



```

03-sarabjeetsingh
hello:not a palindrome
madam :palindrome

...Program finished with exit code 0
Press ENTER to exit console.

```

Experiment no – 07(c) Aim:

Write a program to using strlen(), strcmp() function.

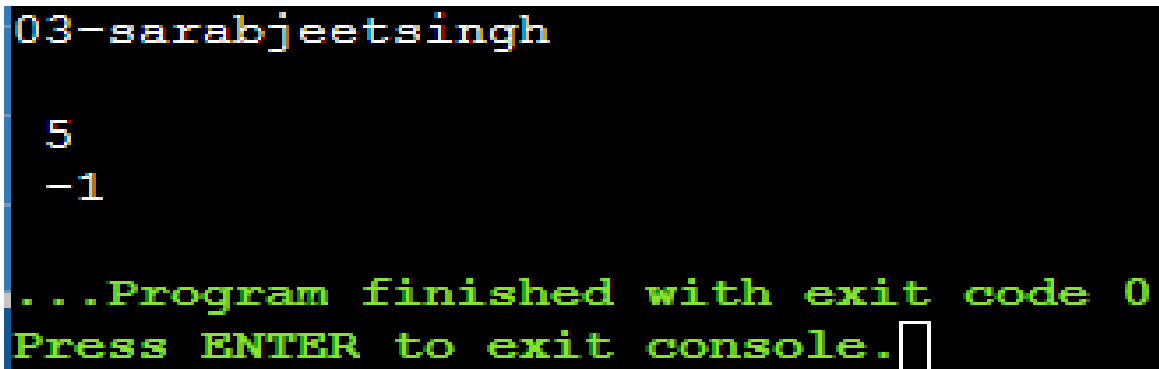
Algorithm:

- i. Start
- ii. Use strlen function
- iii. Use strcmp function
- iv. Print result
- v. Stop

CODE

```
#include<stdio.h>
#include<string.h> int
main()
{ printf("03-sarabjeetsingh\n");
    int i;
    i=strlen("Hello");
    printf("\n %d",i);
    i=strcmp("Hello!", "World");
    printf("\n %d",i);    return 0;
}
```

Output:



```
03-sarabjeetsingh
5
-1
...Program finished with exit code 0
Press ENTER to exit console. 
```