

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("01-AlstonAlvares\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:

```
01-AlstonAlvares
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("01-AlstonAlvares\n");
  isPal("hello");
  isPal("madam");
  return 0;
}

```

Output:

```

01-AlstonAlvares
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

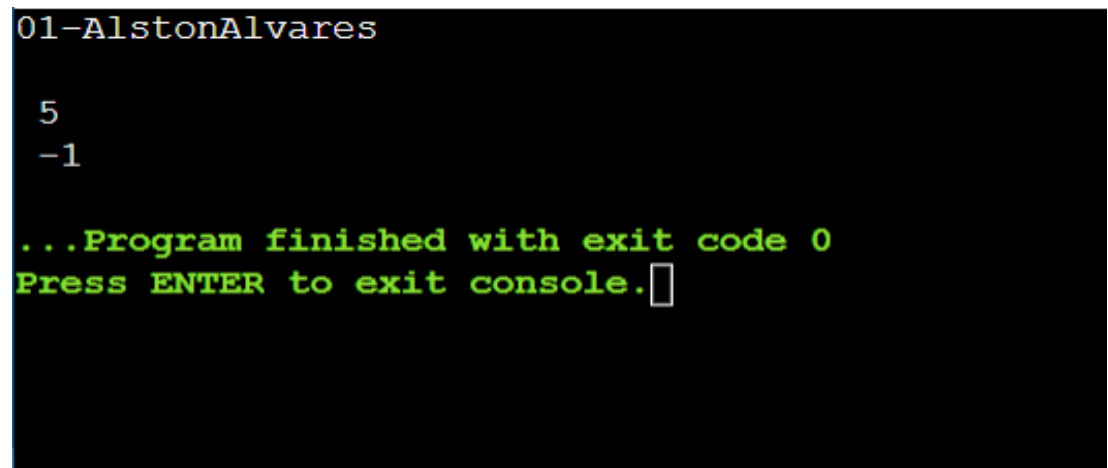
Code:

```
#include<stdio.h>

#include<string.h>

int main()
{ printf("01-AlstonAlvares\n");
  int i;
  i=strlen("Hello");
  printf("\n %d",i);
  i=strcmp("Hello!","World");
  printf("\n %d",i);
  return 0;
}
```

Output:



```
01-AlstonAlvares

5
-1

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