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                /*C-PROGRAM TO SIMULATE ALL STRING HANDLING FUNCTIONS*/
#include<stdio.h>
#include<string.h>
void mystrcat(char *s,char *t);
int mystrlen(char *s);
void mystrcpy(char *s,char *t);
int mystrcmp(char *s,char *t);

void main()
{
char str[20],str1[20],str2[40];
int i,n;
clrscr();
printf("Enter the first string\n");
gets(str);
printf("Enter the second string\n");
gets(str1);
printf("1:strlen\n 2:strcat\n 3:strcmp\n 4:strcpy\n");
scanf("%d",&i);
switch(i)
{
case 1: n=mystrlen(str);
        printf("Length of string1 is:%d",n);
        break;
case 2: mystrcat(str,str1);
        printf("After concatenation the resultant string is:%s",str);
        break;
case 3: n=mystrcmp(str,str1);
        if(n==0)
            printf("The strings are equal\n");
        else
            printf("The strings are not equal\n");
        break;
case 4: mystrcpy(str2,str1);
        printf("The string is %s",str2);
        break;
default: printf("Wrong selection\n");
}
getch();
}

int mystrlen(char *s)
{
int i=0;
while(s[i]!='\0')
i++;
return i;
}

```

```
void mystrcat(char *s,char *t)
{
while(*s!='\0')
    s++;
    *s=' ';
    s++;
while((*s=*t)!='\0')
    {
    s++;
    t++;
    }
*s='\0';
}
```

```
void mystrcpy(char *s,char *t)
{
while(*t!='\0')
{
*s=*t;
s++;
t++;
}
*s='\0';
}
```

```
int mystrcmp(char *s,char *t)
{
while(*s==*t)
{
if(*s=='\0')
return 1;
s++;
t++;
}

return (*s-*t);
}
```