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//Roll No: 549
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```
// Title: 11) String functions using user defined functions
```

```
/* _____ */
```

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

```
strlen(char []);    //string length function declaration
```

```
strcmp(char [],char []); //string compare function declaration
```

```
strcpy(char [],char []); //string copy function declaration
```

```
strcat(char [],char []); //string concatenation function declaration
```

```
strrev(char []);    //string reverse function declaration
```

```
void main()
```

```
{
```

```
int i,n;
```

```
char
```

```
string[100],string1[100],string2[100],string3[100],string4[100],string5[100],string6[100],string7[100]
```

```
;
```

```
clrscr();
```

```
printf("Choose any option");
```

```
printf("\n1. string length\n2.compare string\n3.copy string\n4.string Concatination\n5.reverse string\n");
```

```
scanf("%d",&n);
```

```
switch(n) //switch starts
```

```
{
```

case 1: //calculate the length of string in numeric value

```
printf("enter string\n");  
scanf("%s",&string);  
printf("\n\nlength of given string = %d",strlen(string));  
  
break;
```

case 2: //compares strings are equal or not

```
printf("\nenter first string");  
scanf("%s",&string1);  
printf("\nenter second string");  
scanf("%s",&string2);  
strcmp(string1,string2); //Function calling  
  
break;
```

case 3: //Copy string in another string

```
printf("\nEnter string");  
scanf("%s",&string3);  
strcpy(string3,string4); //Function calling  
  
break;
```

case 4: //Join two different strings in one string

```
printf("\nEnter first string");  
scanf("%s",&string5);
```

```
printf("\nEnter second string");  
scanf("%s",&string6);  
strcat(string5,string6); //Function calling
```

```
break;
```

```
case 5: //Reverse the string
```

```
printf("\nEnter string");  
scanf("%s",&string7);  
strrev(string7);    //Function calling
```

```
break;
```

```
default: //if user put different value except above
```

```
printf("\nInvalid option");
```

```
} //switch case ends
```

```
getch();
```

```
} //main function ends
```

```
/* _____ */
```

```
    //Function definition starts
```

```
/* _____ */
```

```
int strlen(char string[]) //length funct def
```

```

{
    int i=0,n=0;
    for(i=0;string[i]!='\0';i++) //count till ends i.e \0

    {
        n++;
    }

    return n;
}

/*_____*/

```

strcmp(char string1[],char string2[])//compare funct defn

```

{
    int i,l1,l2,n=0;
    l1=strlen(string1);

    for(i=0;i<l1;i++)
    {
        if(string1[i]!=string2[i])
            n++;
    }

    if(n==0) //checks equality
    {
        printf("\n Given Strings are Equal");
    }
}

```

```

        if(n!=0)
        {
            printf("\n Given Strings are different");

        }

        return 0;

    }

/* _____ */
strcpy(char string3[],char string4[]) //copy function defina

{
    int l,i;

    l=strlen(string3);

    for(i=0;i<l;i++)
    {
        string4[i]=string3[i];
    }

    printf("Copied string = %s",string4);
    return 0;

}

/* _____ */

```

```
strcat(char string5[],char string6[]) //join strin defination
```

```
{
    int i,l1,l2,j ;
    char string3[100];
    l1=strlen(string5);
    for(i=0;i<l1;i++)
    {
        if(i<l1)    //checks condition
        {
            string3[i]=string5[i];
        }

    }

    for(i=l1,j=0;j<l2;i++,j++)
    {
        string3[i]=string6[j];
    }
    printf("Concated string = %s",string3);

    return 0;

}
```

```
/* _____ */
```

```
strrev(char string7[]) //Reverese function calling
```

```
{
```

```
int l,i,j;

char string2[100];

l=strlen(string7);

for(i=0,j=l-1;j>=0;i++,j--)
{
    string2[i]=string7[j];
}

printf("Reverse string =%s" ,string2);

return 0;
}
/* _____Finished_____ */
```