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/* Name-Parimal Muley
   Roll no- 588(E3)
Write a program in C using functions to implement the string functions
  without using the standard library functions supported by string.h
  like string length, string copy,string reverse, string concatenate,
   string compare, string palindrome.*/
#include<stdio.h>
#include<conio.h>
int main()
{
char arr[30],s1[20],s2[20],s3[20],text[100],s[1000],r[1000];
int option,i=0,j, n ,len=0,c=0,count=0;
int begin, middle, end, length = 0;
do{ //using do while loop
// taking input from the user
printf("\n1: Find out length of the string\n");
printf("2: Concatenate of the two string\n");
printf("3:Reverse of the string\n");
printf("4:Copy of the string\n");
printf("5:Check whether the string is pallindrome or not\n");
printf("6:Exit\n\n");
printf("Enter the choice\n\n\n");
scanf("%d",&option);
// taking option from user
switch(option)
 {       //length of string
            case 1:printf("Enter any string \n");
          scanf("%s",arr);
          for(i=0;arr[i]!='\0';i++);
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        printf("The length of the string is %d\n\n",i);
                    break;
          case 2:printf(" String Concatenation \n");// string concatenation
        printf("\nEnter the First string:\n");
        scanf("%s", s1);
        printf("\nEnter Second string\n");
        scanf("%s",s2);
        for(i=0;s1[i]!='\0';i++)
        {
         s3[i]=s1[i];
        }
         s3[i]='\0';
         for(j=0;j<=i;j++)
        {
        s3[i+j]=s2[j];
        }
        printf("\nThe Concatenated string is %s\n\n",s3);
                    break;
case 3: printf("Input a string\n");//reversing the string
         scanf("%s",s);

        // Calculating string length

         while (s[count] != '\0')
         count++;

         end = count - 1;

         for (begin = 0; begin < count; begin++)
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                                {
        r[begin] = s[end];
        end--;
        }

        r[begin] = '\0';

        printf("%s\n", r);
    break;
case 4:printf("\nEnter the string :");//copying the string
       scanf("%s",s1);

    i = 0;
    while (s1[i] != '\0') {
    s2[i] = s1[i];
   i++;
  }

  s2[i] = '\0';
  printf("\nCopied String is %s ", s2);



break;
case 5:printf("enter the string to check pallindrome\n");//checking pallindrome
          scanf("%s",&text);
             while (text[length] != '\0')
    length++;
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        end = length - 1;
        middle = length/2;

        for (begin = 0; begin < middle; begin++)
        {
         if (text[begin] != text[end])
        {
        printf("Not a palindrome.\n");
        break;
        }
        end--;
        }
        if (begin == middle)
        printf("Palindrome.\n");
              break;
    case 6:printf("\n Bye Bye ,See you again");//exit case
              break;
    default:printf("\n Invalid Input\n");//default case

}

}
while(option != 6);
}
/*
Output-

1: Find out length of the string
2: Concatenate of the two string
```

3:Reverse of the string

4:Copy of the string

5:Check whether the string is pallindrome or not

6:Exit

Enter the choice

1

Enter any string

sanu

The length of the string is 4

1: Find out length of the string

2: Concatenate of the two string

3:Reverse of the string

4:Copy of the string

5:Check whether the string is pallindrome or not

6:Exit

Enter the choice

2

String Concatenation

Enter the First string:

raja

Enter Second string

babu

The Concatenated string is rajababu

1: Find out length of the string

2: Concatenate of the two string

3:Reverse of the string

4:Copy of the string

5:Check whether the string is pallindrome or not

6:Exit

Enter the choice

3

Input a string

unas

sanu

1: Find out length of the string

2: Concatenate of the two string

3:Reverse of the string

4:Copy of the string

5:Check whether the string is pallindrome or not

6:Exit

Enter the choice

4

Enter the string :sam

Copied String is sam

1: Find out length of the string

2: Concatenate of the two string

3:Reverse of the string

4:Copy of the string

5:Check whether the string is pallindrome or not

6:Exit

Enter the choice

5

enter the string to check pallindrome

malayalam

Palindrome.

1: Find out length of the string

2: Concatenate of the two string

3:Reverse of the string

4:Copy of the string

5:Check whether the string is pallindrome or not

6:Exit

Enter the choice

6

Bye Bye ,See you again

Process exited after 103.9 seconds with return value 0

Press any key to continue . . .*/