EXPERIMENT:-4C

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PROGRAM:-
#include<stdio.h>
#include<string.h>
void main()
char s[100];
int i,flag,flag1,a,b;
int l,count1,count2;
printf("enter a string to check:");
scanf("%s",s);
l=strlen(s); flag=1;
for(i=0;i<l;i++)
{
if(s[i]!='0' && s[i]!='1')
flag=0;
}
}
if(flag!=1)
printf("string is Not Valid\n");
                                   if(flag==1)
i=0;count1=0;
while(s[i]=='0') // Count the no of 0s in the front
{
count1++;
i++;
}
while(s[i]=='1')
i++; // Skip all 1s
}
              count2=0;
flag1=1;
       while(i<l)
if(s[i]=='0')// Count the no of 0s at the end
count2++;
                            }
              else
flag1=0;
}
i++;
```

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[Type here]
}
     if(flag1==1)
if(count1==count2)
                printf("The string satisfies the condition
                0n1m0n\n");
                                 printf ("String Accepted\n");
           }
else
           {
                printf("The string does not satisfy the condition
                0n1m0n\n");
                               printf("String Not Accepted\n");
           }
}
           else
{
      printf("The string does not satisfy the condition 0n1m0n\n");
           printf("String Not Accepted\n");
}
}
OUTPUT:-
enter a string to check:0000110000
The string satisfies the condition 0n1m0n
String Accepted
                                execution time: 12.437 s
Process returned 0 (0x0)
Press any key to continue.
enter a string to check:000111010
The string does not satisfy the condition 0n1m0n
String Not Accepted
                               execution time : 5.875 s
Process returned 0 (0x0)
Press any key to continue.
enter a string to check:10aabb01
string is Not Valid
Process returned 0 (0x0)
                               execution time : 6.329 s
Press any key to continue.
```