

Practical

CE143 : COMPUTER CONCEPTS & PRAGRAMMING

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20DCS103 DEPSTAR CSE-2 : Batch - B

1. Write a program in C to convert a binary number into a decimal number without using array function and while loop.

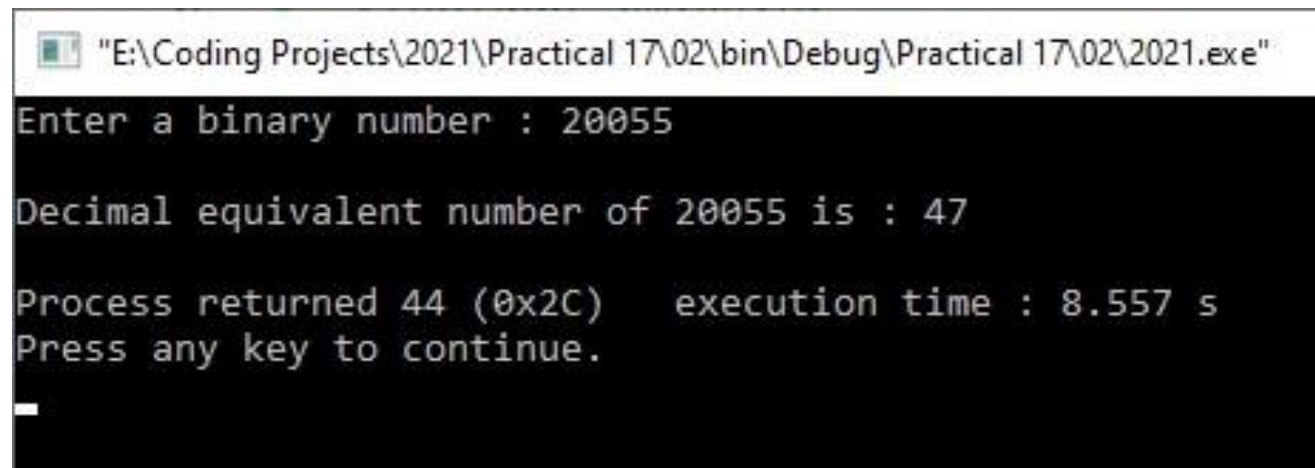
Source Code :

```
#include <stdio.h>
#include <math.h>
void convert_decimal(long int);
void main()
{
    long int binary,temp;
    int a=0,b,i;
    long int decimal=0;
    printf("Enter a binary number : ");
    scanf("%ld",&binary);
    temp=binary;

    for(i=0;binary!=0;++i)
    {
        b=binary%10;
        decimal=decimal+(b*(pow(2,a)));
        a++;
        binary=binary/10;
        ++i;
    }
}
```

```
    }  
    printf("\nDecimal equivalent number of %ld is : %ld\n",temp,decimal);  
}
```

Output :



```
"E:\Coding Projects\2021\Practical 17\02\bin\Debug\Practical 17\02\2021.exe"  
Enter a binary number : 20055  
  
Decimal equivalent number of 20055 is : 47  
  
Process returned 44 (0x2C)   execution time : 8.557 s  
Press any key to continue.  
_
```

2. Write a C program to find maximum occurring character in a string.

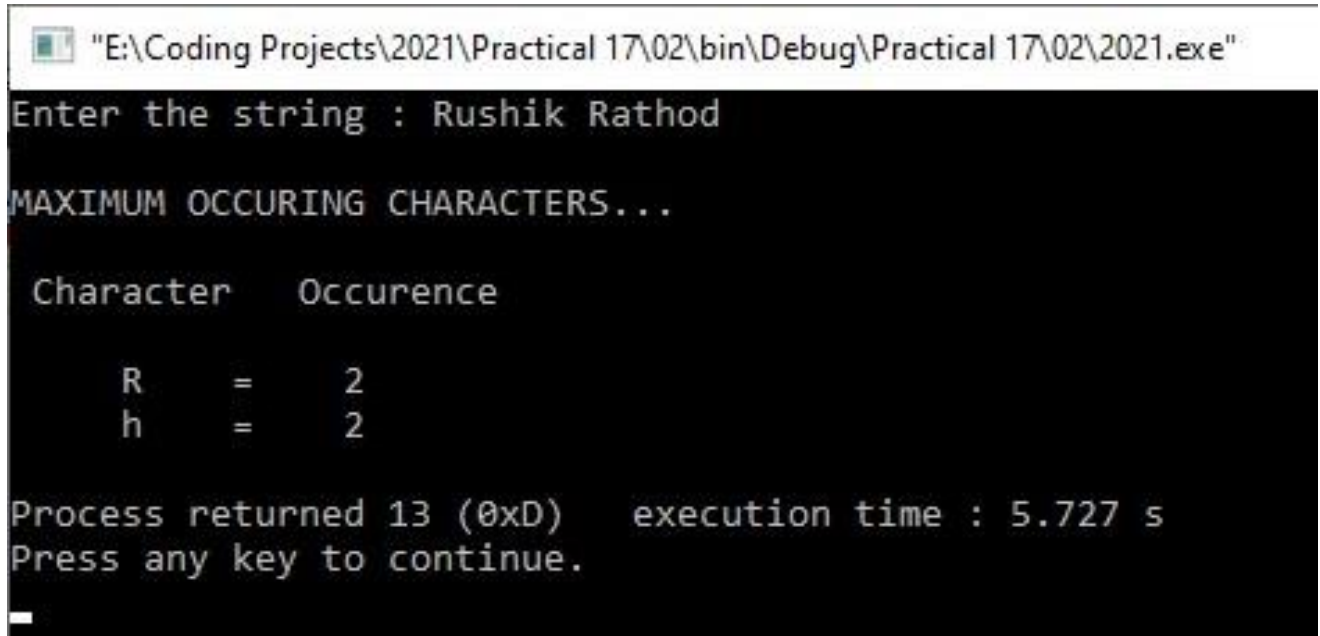
Source Code :

```
#include <stdio.h>
#include <string.h>
void findmax_occurence(char *s)
{
    int i,j,a[1000],k=0,count=0,n=strlen(s);
    for(i=0;i<n;i++)
    {
        a[i]=0;
        count=1;
        if(s[i])
        {
            for(j=i+1;j<n;j++)
            {
                if(s[i]==s[j])
                {
                    count++;
                    s[j]='\0';
                }
            }
        }
        a[i]=count;
    }
```

```
        if(count>=k)
            k=count;
    }
    printf("\nMAXIMUM OCCURING CHARACTERS...\n");
    printf("\n Character  Occurence \n\n");
    for(j=0;j<n;j++)
    {
        if(a[j]==k)
        {
            printf(" %5c  =%5d\n",s[j],k);
        }
    }
}

void main()
{
    char string[1000];
    printf("Enter the string : ");
    gets(string);
    findmax_occurence(string);
}
```

Output :



```
"E:\Coding Projects\2021\Practical 17\02\bin\Debug\Practical 17\02\2021.exe"
Enter the string : Rushik Rathod
MAXIMUM OCCURING CHARACTERS...

Character    Occurence
R      =      2
h      =      2

Process returned 13 (0xD)    execution time : 5.727 s
Press any key to continue.
_
```

Thank you...