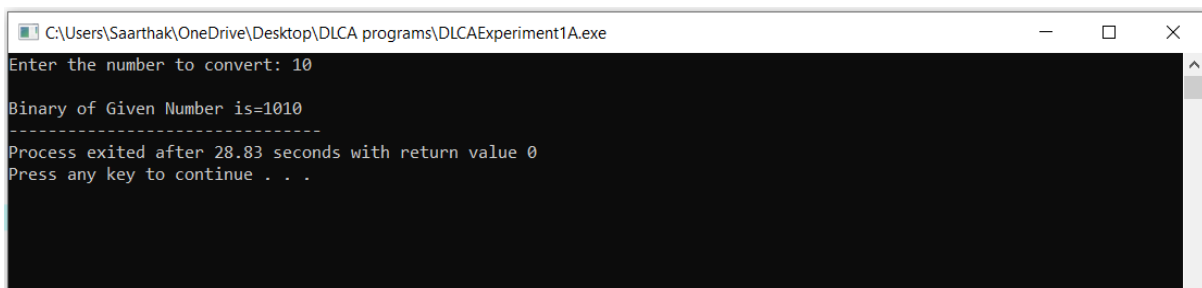


```

//DLCA Experiment 1A
// Saarthak Kumar C-22
// Roll no:98
#include <stdio.h>
int main()
{
    int a[10], n, i;

    printf("Enter the decimal number to convert: ");
    scanf("%d", &n);
    for (i = 0; n > 0; i++)
    {
        a[i] = n % 2;
        n = n / 2;
    }
    printf("\nBinary of Given Number is=");
    for (i = i - 1; i >= 0; i--)
    {
        printf("%d", a[i]);
    }
    return 0;
}

```



```

C:\Users\Saarthak\OneDrive\Desktop\DLCA programs\DLCAExperiment1A.exe
Enter the number to convert: 10
Binary of Given Number is=1010
-----
Process exited after 28.83 seconds with return value 0
Press any key to continue . . .

```

//DLCA Experiment 1B

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

```
int main()
```

```
{
```

```

// declaration of variables

int num, binary_num, decimal_num = 0, base = 1, rem;

printf (" Enter a binary number with the combination of 0s and 1s: \n");

scanf ("%d", &num); // accept the binary number (0s and 1s)

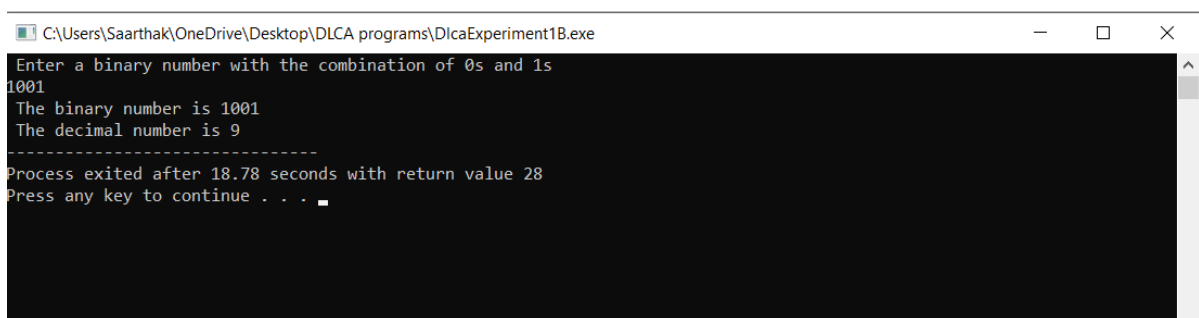

binary_num = num; // assign the binary number to the binary_num variable


while ( num > 0)
{
    rem = num % 10; /* divide the binary number by 10 and store the remainder in rem variable. */
    decimal_num = decimal_num + rem * base;
    num = num / 10; // divide the number with quotient
    base = base * 2;
}

printf ( " The binary number is %d \t", binary_num); // print the binary number
printf (" \n The decimal number is %d \t", decimal_num); // print the decimal

return 0;
}

```



```

C:\Users\Saarthak\OneDrive\Desktop\DLCA programs\DLcaExperiment1B.exe
Enter a binary number with the combination of 0s and 1s
1001
The binary number is 1001
The decimal number is 9
-----
Process exited after 18.78 seconds with return value 28
Press any key to continue . . .

```