```
//DLCA Experiment 1A
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// 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;
}
```

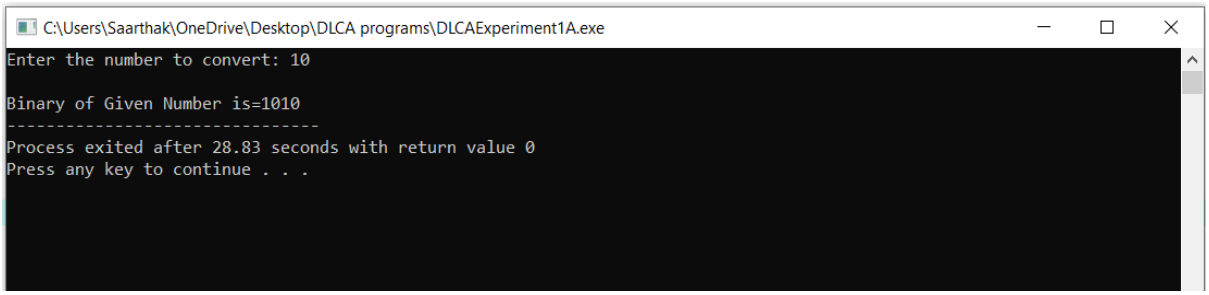


```
//DLCA Experiment 1B
#include <stdio.h>
int main()
{
```

```
    // 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;
}
```