EX. 22

C PROGRAM TO CONVERT DECIMAL TO OCTAL

#include <stdio.h>

int main()

{

long decimalnum, remainder, quotient,octalnum=0;

int octalNumber[100], i = 1, j;

printf("Enter the decimal number: ");

scanf("%ld", &decimalnum);

quotient = decimalnum;

//Storing remainders until number is equal to zero

while (quotient != 0)

{

octalNumber[i++] = quotient % 8;

quotient = quotient / 8;

}

//Converting stored remainder values in corresponding octal number

for (j = i - 1; j > 0; j--)

octalnum = octalnum\*10 + octalNumber[j];

printf("Equivalent octal value of decimal no %d is: %d ", decimalnum,octalnum);

return 0;

}