```cpp
/*--------Decimal to Octal--------*/

#include<iostream>
using namespace std;

void hexaDecimal(int n)
{
    /* First we'll find the required dimension
    of our array to store the remainders */
    int size = 0;
    int temp = n;
    while(temp > 0)
    {
        temp /= 16;
        size += 1;
    }

    char arr[size]; // Type is char to take char val
    int index = 0;
    while(n > 0)
    {
        int rem = 0;
        rem = n % 16;

        if(rem < 10)
        {
            arr[index] = rem + 48;  /* Since ASCII
            val of 48 is 0 so val asigned is temp*/
        }
        else
        {
            arr[index] = rem + 55;  /* Since ASCII val
            of 65 is A, 66 is B & so on, so when remainder
            is 10 then arr will be A, when 11 array will
            be B & vice versa */
        }

        index++;
        n /= 16;
    }

    for(int j = index - 1; j >= 0; j--)
    {
        cout << arr[j];
    }
}
```

```
47:
48: int main()
49: {
50:     int n;
51:     cout << "Enter your number: \n";
52:     cin >> n;
53:
54:     cout << "Hexa Decimal representation of " << n << " is:\n";
55:     hexaDecimal(n);
56:
57:     return 0;
58: }
```