Q.WRITE A PROGRAM TO CALCULATE THE NO. OF FACTORS OF A NUMBER AND TO CHECK IF IT’S A PRIME NUMBER OR COMPOSITE.

A. #include<stdio.h>

int main()

{

int num;

int c;

int fac=0;

printf("Enter a number:");

scanf("%d",&num);

for(c=1;c<=num;c++){

if(num%c==0){

printf("The factor of %d is %d\n",num,c);

fac++;

}

}

printf("The no. of factors of %d is %d\n",num,fac);

if(fac==2)

printf("%d is a prime number",num);

else

if(fac>2)

printf("%d is not a prime number",num);

else

printf("Invalid input.....");

return 0;

}

OUTPUT:





