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**Sp22-bse-073**

#include <stdio.h>

void swap(int \*a, int \*b) {

int temp = \*a;

\*a = \*b;

\*b = temp;

}

int main() {

int num1, num2;

printf("Enter two numbers: ");

scanf("%d %d", &num1, &num2);

printf("Before swapping: num1 = %d, num2 = %d\n", num1, num2);

// Call the swap function

swap(&num1, &num2);

printf("After swapping: num1 = %d, num2 = %d\n", num1, num2);

return 0;

}

#include <stdio.h>

void EONumcheck(int \*a) {

if (\*a % 2 == 0) {

printf("Even\n");

} else {

printf("Odd\n");

}

}

int main() {

int num;

printf("Enter a Number to check if it is Even or Odd: ");

scanf("%d", &num);

EONumcheck(&num);

return 0;

}

#include<stdio.h>

void Primecheck(int \*a){

int flag=0;

for(int i=2; i<=(\*a/2);i++){

if(\*a%i==0){

flag=1;

break;

}

}

if(flag==1){

printf("%d is not Prime", \*a);

}

else{

printf("%d is Prime", \*a);

}

}

int main(){

int num;

printf("Enter the number to check if it is Prime or not!\n");

scanf("%d", &num);

Primecheck(&num);

return 0;

}

#include<stdio.h>

#include<math.h>

int Power(int a, int b){

int result = pow(a,b);

return result;

}

int main(){

int num1;

int num2;

int result;

printf("Enter two Numbers:\n");

scanf("%d%d",&num1,&num2);

result=Power(num1,num2);

printf("Power of %d upon %d is %d",num1,num2,result);

return 0;

}

#include<stdio.h>

#include<math.h>

int Power(int a, int b){

int result = pow(a,b);

return result;

}

int main(){

int num1;

int num2;

int result;

printf("Enter two Numbers:\n");

scanf("%d%d",&num1,&num2);

result=Power(num1,num2);

printf("Power of %d upon %d is %d",num1,num2,result);

return 0;

}

#include <stdio.h>

int factorial(int num) {

int fact = 1;

for (int i = 1; i <= num; i++) {

fact \*= i;

}

return fact;

}

int main() {

int num;

printf("Enter a number: ");

scanf("%d", &num);

int result = factorial(num);

printf("Factorial of %d is %d\n", num, result);

return 0;

}

#include <stdio.h>

#include <math.h>

double findSquareRoot(double num) {

double sqrtValue = sqrt(num);

return sqrtValue;

}

int main() {

double num;

printf("Enter a number: ");

scanf("%lf", &num);

double result = findSquareRoot(num);

printf("Square root of %.2lf is %.2lf\n", num, result);

return 0;

}

#include <stdio.h>

int calculate\_gcd(int a, int b) {

int temp;

while (b != 0) {

temp = b;

b = a % b;

a = temp;

}

return a;

}

int main() {

int num1, num2;

printf("Enter the first number: ");

scanf("%d", &num1);

printf("Enter the second number: ");

scanf("%d", &num2);

int gcd = calculate\_gcd(num1, num2);

printf("The Greatest Common Divisor (GCD) of %d and %d is: %d\n", num1, num2, gcd);

return 0;

}

#include <stdio.h>

int calculate\_gcd(int a, int b) {

int temp;

while (b != 0) {

temp = b;

b = a % b;

a = temp;

}

return a;

}

int calculate\_lcm(int a, int b) {

int gcd = calculate\_gcd(a, b);

int lcm = (a \* b) / gcd;

return lcm;

}

int main() {

int num1, num2;

printf("Enter the first number: ");

scanf("%d", &num1);

printf("Enter the second number: ");

scanf("%d", &num2);

int lcm = calculate\_lcm(num1, num2);

printf("The Least Common Multiple (LCM) of %d and %d is: %d\n", num1, num2, lcm);

return 0;

}