

1) #include<stdio.h>

int rev(int n);

int main()

{

int n;

printf("Enter the number: ");

scanf("%d",&n);

int r=rev(n);

printf("%d\n",r);

}

int rev(int n)

{

int rem, sum=0;

while(n!=0)

{

rem=n%10;

sum=(sum*10)+rem;

n=n/10;

}

return sum;

}

2) #include<stdio.h>

int rev(int n);

int main()

{

int n;

printf("Enter the number: ");

scanf("%d",&n);

int r=rev(n);

printf("%d\n",r);

}

int rev(int n)

{

int rem, sum=0;

while(n!=0)

{

```

        rem=n%10;
        sum=(sum*10)+rem;
        n=n/10;
    }
    return sum;
}

```

3) #include<stdio.h>

```

int fact(int n);

int main()
{
    int n;

    printf("Enter the number: ");
    scanf("%d",&n);

    int r=fact(n);
    printf("%d\n",r);
}
int fact(int n)
{
    int fact=1;

    for(int i=1;i<=n;i++)
    {
        fact=fact*i;
    }
    return fact;
}

```

4) #include<stdio.h>

```

int isPalindrome(int n);

int main()
{
    int n;
    printf("Enter the number");
    scanf("%d",&n);

    int r=isPalindrome(n);
    if(r==0)
    {
        printf("is a Plaindrome");
    }
}

```

```

        else
        {
            printf("is not a Palindrome");
        }
    }
int isPalindrome(int n)
{
    int temp, rem, sum=0;

    temp=n;

    while(n>0)
    {
        rem=n%10;
        sum=(sum*10)+rem;
        n=n/10;
    }
    if(temp==sum)
    {
        return 0;
    }
    else
    {
        return 1;
    }
}

```

5) #include <stdio.h>

```

// Check if number is prime or not
int isPrime(int n) {
    if (n < 2) return 0; // Not prime if less than 2
    for (int i = 2; i * i <= n; i++) {
        if (n % i == 0) return 0; // Not prime if divisible
    }
    return 1; // Prime
}

```

```

// Find position of the prime number
int findPosition(int num) {
    int count = 0; // Count how many primes before this
    for (int i = 2; i <= num; i++) {
        if (isPrime(i)) {
            count++;
            if (i == num) {
                return count; // Found the position
            }
        }
    }
}

```

```

    }
}
return -1; // Not a prime
}

int main() {
    int a, b;
    printf("Enter two prime numbers: ");
    scanf("%d %d", &a, &b);

    // Find positions
    int pos1 = findPosition(a);
    int pos2 = findPosition(b);

    // Check if both are prime
    if (pos1 == -1 || pos2 == -1) {
        printf("One or both numbers are not prime.\n");
    } else {
        int result = pos1 * pos2;
        printf("Position of %d is: %d\n", a, pos1);
        printf("Position of %d is: %d\n", b, pos2);
        printf("Final Answer (pos1 * pos2): %d\n", result);
    }

    return 0;
}

```

6) #include<stdio.h>

double Discount(int price, char student); //Declartion

```

int main()
{
    double price;

    printf("Enter the price: ");
    scanf("%lf",&price);

    char student; //Calling

    printf("Are you a student? (Y/N): ");
    scanf(" %c", &student);

    Discount(price, student);
}

double Discount(int price, char student) //Defination

```

```

{
    double discount = 0.0, finalprice;

    if (student == 'Y' || student == 'y') {
    if (price > 500) {
        discount = 20.0;
    } else {
        discount = 10.0;
    }
    } else if (student == 'N' || student == 'n') {
    if (price > 600) {
        discount = 15.0;
    } else {
        printf("No Discount\n");
    }
    }

    finalprice = price - (price * discount / 100);
    printf("Final Price is: %.2lf\n", finalprice);

    return 0;

}

```

7) #include<stdio.h>

```
int largest(int a, int b, int c);
```

```
int main()
```

```

{
    int a,b,c;

    printf("Enter the three number: ");
    scanf("%d %d %d",&a,&b,&c);

    largest(a,b,c);
}
int largest(int a, int b, int c)
{
    if(a>b && a>c){
        printf("Largest No: %d",a);
    }else if(b>a && b>c){
        printf("Largest No: %d",b);
    }else{
        printf("Largest No: %d",c);
    }
    return 0;
}

```

```
}
```

```
8) #include<stdio.h>
```

```
int swap(int a, int b);
```

```
int main()
```

```
{
```

```
    int a, b;
```

```
    printf("Enter the number: ");
```

```
    scanf("%d%d",&a,&b);
```

```
    swap(a,b);
```

```
}
```

```
int swap(int a, int b)
```

```
{
```

```
    a=a+b;
```

```
    b=a-b;
```

```
    a=a-b;
```

```
    printf("A: %d\n", a);
```

```
    printf("B: %d\n", b);
```

```
    return 0;
```

```
}
```

```
9) #include<stdio.h>
```

```
int prime(int n);
```

```
int main()
```

```
{
```

```
    int n;
```

```
    printf("Enter the number: ");
```

```
    scanf("%d",&n);
```

```
    prime(n);
```

```
}
```

```
int prime(int n)
```

```
{
```

```
    int status=0, i=2;
```

```
    while(i<n)
```

```
    {
```

```
        if(n%i==0)
```

```
        {
            status=1;
            break;
        }
        i++;
    }
    if(status==0)
    {
        printf("%d is a prime number");
    }
    else
    {
        printf("%d is not a prime number");
    }
}
```