

1. Wap to find quotient and remainder.

```
#include <stdio.h>
void main(){

    int dividend, divisor, quotient, remainder;

    printf("Enter dividend: ");
    scanf("%d", &dividend);

    printf("Enter divisor: ");
    scanf("%d", &divisor);

    // Computes quotient
    quotient = dividend / divisor;

    // Computes remainder
    remainder = dividend % divisor;

    printf("Quotient = %d\n", quotient);
    printf("Remainder = %d", remainder);

}
```

2. Wap to check whether a given character is vowel or consonant

```
#include <stdio.h>

void main()
{
    char c;
    int isLowercaseVowel, isUppercaseVowel;

    printf("Enter an alphabet: ");
    scanf("%c",&c);

    // evaluates to 1 (true) if c is a lowercase vowel
    isLowercaseVowel = (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u');

    // evaluates to 1 (true) if c is an uppercase vowel
    isUppercaseVowel = (c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U');

    // evaluates to 1 (true) if either isLowercaseVowel or isUppercaseVowel is true
    if (isLowercaseVowel || isUppercaseVowel)
        printf("%c is a vowel.", c);
    else
        printf("%c is a consonant.", c);
}
```

3. C Program to Check Whether a Character is an Alphabet or not

```
#include <stdio.h>

void main()
{
    char c;
    printf("Enter a character: ");
    scanf("%c",&c);

    if( (c>='a' && c<='z') || (c>='A' && c<='Z'))
        printf("%c is an alphabet.",c);
    else
        printf("%c is not an alphabet.",c);
    getch();
}
```

4.C Program to Calculate the Power of a Number

```
#include <stdio.h>
#include <math.h>

void main()
{
    double base, exponent, result;

    printf("Enter a base number: ");
    scanf("%lf", &base);

    printf("Enter an exponent: ");
```

```

scanf("%lf", &exponent);

// calculates the power
result = pow(base, exponent);

printf("%lf%lf%lf", base, exponent, result);

getch;
}

```

5.wap to check eligible for voting.

```

#include <stdio.h>
int main()
{
    int age;
    printf("Enter your age:");
    scanf("%d",&age);
    if(age >=18)
        printf("You are eligible for voting");
    else
        printf("You are not eligible for voting");
    return 0;
}

```

6.Program to check equilateral, scalene or isosceles triangle

```

#include <stdio.h>

void main()
{
    int side1, side2, side3;

    /* Input sides of a triangle */
    printf("Enter three sides of triangle: ");
    scanf("%d%d%d", &side1, &side2, &side3);

    if(side1==side2 && side2==side3)
    {
        /* If all sides are equal */
        printf("Equilateral triangle.");
    }
}

```

```
else if(side1==side2 || side1==side3 || side2==side3)
{
    /* If any two sides are equal */
    printf("Isosceles triangle.");
}
else
{
    /* If none sides are equal */
    printf("Scalene triangle.");
}

getch();
}
```