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#include <stdio.h>

int main (){

return 0
}

//i
void countFrom100 (){
int count , square;
for(count = 100; count > 0 ; count--){
square = count *count;
printf("%d\n", square);
}
}

//iii
void checkPrime(){
int n, i, flag = 0;
printf("Enter a positive integer: ");
scanf("%d", &n);

for (i = 2; i <= n / 2; ++i){
if (n % i == 0) {
flag = 1;
break;
}
}

if (n == 1) {
printf("1 is neither prime nor composite.");
}
else {
if (flag == 0)
printf("%d is a prime number.", n);
else
printf("%d is not a prime number.", n);
}
}
}

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//iv

void factorialNum(){
    int n, i;
    unsigned long long fact = 1;
    printf("Enter an integer: ");
    scanf("%d", &n);

    // shows error if the user enters a negative integer
    if (n < 0)
        printf("Error! Factorial of a negative number doesn't exist.");
    else {
        for (i = 1; i <= n; ++i) {
            fact *= i;
        }
        printf("Factorial of %d = %llu", n, fact);
    }
}

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//vi

void checkAlphabets(){
    char c;
    int lowercase, uppercase;
    printf("Enter an alphabet: ");
    scanf("%c", &c);

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

    // evaluates to 1 if variable c is uppercase
    uppercase = (c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U');

    // evaluates to 1 if c is either lowercase or uppercase
    if (lowercase || uppercase)
        printf("%c is a vowel.", c);
}

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    else
        printf("%c is a consonant.", c);
}
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//vii
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void findMultiplication(){
    int number , i ,final;
    printf("Enter a number to show Multiplication ");
    scanf("%d", &number);

    for(i = 1 ; i <= 12 ; i++){
        final = number * i
        printf(" The Multiplication of %d * %d = %d"\n, number, i,final);
    }
}
```

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//ix
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void findProduct(){
    int i , number;
    int final = 1;
    for(i = 0 ; i<8 ; i++){
        printf("Enter a number that will be multiplied");
        scanf("%d", &number);
        if(number == 0){
            continue;
        }else{
            final *= number
        }
    }

    printf("Your final answer is %d" , final);

}
```

//x