main.c

Run

Output

```c
#include <stdio.h>
int main() {
    int base, exp;
    long double result = 1.0;
    printf("Enter a base number: ");
    scanf("%d", &base);
    printf("Enter an exponent: ");
    scanf("%d", &exp);

    while (exp != 0) {
        result *= base;
        --exp;
    }
    printf("Answer = %.0Lf", result);
    return 0;
}
```

```
/tmp/NgvOWcT5J1.o
Enter a base number: 25
Enter an exponent: 27
Answer = 5551115123125782701380352153676152832O
```

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Programiz C Online Compiler

main.c

Run

```c
#include <stdio.h>
int main()
{
int a,b,big;
printf("enter first number a");
scanf("%d",&a);
printf("enter second number b");
scanf("%d",&b);
if (a>b)
big=a;
else
big=b;
printf("%d",big);
    return 0;
}
```

Output

```
/tmp/6Wqf11tP2X.o
enter first number a25
enter second number b65
65
```

main.c

Run

```c
int main()
{
int rad;
float PI = 3.14, area, c;
printf("\nEnter radius of circle: ");
scanf("%d", &rad); area = PI * rad * rad;
printf("\nArea of circle : %f ", area); c = 2 * PI * rad;
printf("\nCircumference : %f ", c);
return (0);

}
```

Output

Clear

```
/tmp/xXnA35Q25B.o
Enter radius of circle: 5
Area of circle : 78.500000
Circumference : 31.400002
```

Programiz C Online Compiler

C Certification >

main.c

Run

```c
#include<stdio.h>
int main()
{
int base ,height, area;
printf("enter base of the triangle");
scanf("%d",&base);
printf("enter height of the triangle");
scanf("%d",&height);
area = (base*height) / 2 ;
printf("%d",area);
return (0);
}
```

Output

Clear

```
/tmp/xXnA3SQ25B.o
enter base of the triangle6
enter height of the triangle10
30
```

Programiz C Online Compiler

main.c

Run

Output

```c
#include <stdio.h>
int main() {
    int num, originalNum, remainder, n = 0;
    float result = 0.0;
    printf("Enter an integer: ");
    scanf("%d", &num);
    originalNum = num;
    for (originalNum = num; originalNum != 0; ++n) {
        originalNum /= 10;
    }
    for (originalNum = num; originalNum != 0; originalNum /= 10) {
        remainder = originalNum % 10;
       result += pow(remainder, n);
    }
    if ((int)result == num)
     printf("%d is an Armstrong number.", num);
    else
     printf("%d is not an Armstrong number.", num);
    return 0;
}
```

```
/tmp/kKRHUwqx2x.o
Enter an integer: 8974
8974 is not an Armstrong number.
```

programiz.com/c-programming/online-compiler/?ref=7945ed91

Programiz C Online Compiler

main.c

Run

Output

```c
#include <stdio.h>
int main() {
    char c;
    printf("Enter a character: ");
    scanf("%c", &c);

    // %d displays the integer value of a character
    // %c displays the actual character
    printf("ASCII value of %c = %d", c, c);

    return 0;
}
```

```
/tmp/yPRbjzwnDt.o
Enter a character: f
ASCII value of f = 102
```

main.c

Run

```c
#include<stdio.h>

int main() {
    int s1, s2, s3, s4, s5, sum, total = 500;
    float per;

    printf("\nEnter marks of 5 subjects : ");
    scanf("%d %d %d %d %d", &s1, &s2, &s3, &s4, &s5);

    sum = s1 + s2 + s3 + s4 + s5;
    printf("\nSum : %d", sum);

    per = (sum * 100) / total;
    printf("\nPercentage : %f", per);

    return (0);
}
```

Output

```
/tmp/ucXFZG3xTt.o
Enter marks of 5 subjects : 20 90 30 55 75
Sum : 270
Percentage : 54.000000
```

Programiz C Online Compiler

C Certification >

main.c

Run

```c
#include <stdio.h>

int main()
{
    float celsius, fahrenheit;
    printf("Enter temperature in Celsius: ");
    scanf("%f", &celsius);
 fahrenheit = (celsius * 9 / 5) + 32;
 printf("%.2f Celsius = %.2f Fahrenheit", celsius, fahrenheit);
return 0;
}
```

Output

Clear

```
/tmp/ucXFZG3xTt.o
Enter temperature in Celsius: 35
35.00 Celsius = 95.00 Fahrenheit
```

main.c

Run

```c
#include <stdio.h>
int main() {
    int num;
    printf("Enter an integer: ");
    scanf("%d", &num);
    if(num % 2 == 0)
        printf("%d is even.", num);
    else
        printf("%d is odd.", num);

    return 0;
}

```

Output

Clear

```
/tmp/fVlF9nyaeK.o
Enter an integer: 98
98 is even.
```

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C Certification >

main.c

Run

```c
#include<stdio.h>
int main()
{
 int i,fact=1,number;
 printf("Enter a number: ");
  scanf("%d",&number);
    for(i=1;i<=number;i++){
      fact=fact*i;
  }
  printf("Factorial of %d is: %d",number,fact);
return 0;
}
```

Output

Clear

```
/tmp/ucXFZG3xTt.o
Enter a number: 5
Factorial of 5 is: 120
```

main.c

Run

```c
#include<stdio.h>
int main()
{
    int i=1,n,f,f1,f2;
    printf("Enter Number of Fibonacci Values Needed : ");
    scanf("%d",&n);
    f=0;
    f1=1;
    f2=1;
    do
    {
        i++;
        printf("%d\n",f);
        f1=f2;
        f2=f;
        f=f1+f2;
    }
    while(i<=n);
return 0;
}
```

Output

```
/tmp/8WAwVxnTmf.o
Enter Number of Fibonacci Values Needed : 15
0
1
1
2
3
5
8
13
21
34
55
89
144
233
377
```

main.c

Run

Output

```c
#include <stdio.h>
int main()
{
    int n1, n2, i, gcd;
    printf("Enter two integers: ");
    scanf("%d %d", &n1, &n2);
    for(i=1; i <= n1 && i <= n2; ++i)
    {
        if(n1%i==0 && n2%i==0)
            gcd = i;
    }
    printf("G.C.D of %d and %d is %d", n1, n2, gcd);
    return 0;
}
```

```
/tmp/8WAwVxnTmf.o
Enter two integers: 12 97
G.C.D of 12 and 97 is 1
```

ain.c

Run

```c
#include <stdio.h>
int main()
{
  double n1, n2, n3;
  printf("Enter three different numbers: ");
  scanf("%lf %lf %lf", &n1, &n2, &n3);
 if (n1 >= n2 && n1 >= n3)
    printf("%.2f is the largest number.", n1);
  if (n2 >= n1 && n2 >= n3)
    printf("%.2f is the largest number.", n2);
  if (n3 >= n1 && n3 >= n2)
    printf("%.2f is the largest number.", n3);
  return 0;
}
```

Output

```
/tmp/Dw3x3x6uQN.o
Enter three different numbers: 25 94 57
94.00 is the largest number.
```

Programiz C Online Compiler

main.c

Run

```c
#include <stdio.h>
int main()
{
  double n1, n2, n3;
  printf("Enter three different numbers: ");
  scanf("%lf %lf %lf", &n1, &n2, &n3);
  if (n1 >= n2 && n1 >= n3)
    printf("%.2f is the largest number.", n1);
  if (n2 >= n1 && n2 >= n3)
    printf("%.2f is the largest number.", n2);
  if (n3 >= n1 && n3 >= n2)
    printf("%.2f is the largest number.", n3);
  return 0;
}
```

Output

```
/tmp/BZbdkM7jZq.o
Enter three different numbers: 11 24 55
55.00 is the largest number.
```

main.c

Run

```c
#include<stdio.h>
int main()
{
   int marks;
   printf("\n---------------------------------");
   printf("\nEnter The Marks Between 0 To 100:");

   printf("\nEnter The Mark: ");
   scanf("%d", &marks);
   if(marks>100)
   {
    printf("\nDon't Be Smart Enter your Marks Between Limit\n");
   }
   else
   {
   switch(marks/10)
   {
       case 10 :
       case 9 :
           printf("\n Your Grade is: A");
           break;
       case 8 :
           printf("\n Your Grade is: B" );
           break;
       case 7 :
           printf("\n Your Grade is: C" );
```

Output

Clear

```
/tmp/zcRoG93g6W.o
---------------------------------
Enter The Marks Between 0 To 100:
Enter The Mark: 92
Your Grade is: A
```

Programiz

C Online Compiler

main.c

Run

Output

```c
#include <stdio.h>

int main() {
    int n1, n2, max;
    printf("Enter two positive integers: ");
    scanf("%d %d", &n1, &n2);
    max = (n1 > n2) ? n1 : n2;
    while (1) {
        if ((max % n1 == 0) && (max % n2 == 0)) {
            printf("The LCM of %d and %d is %d.", n1, n2, max);
            break;
        }
        ++max;
    }
    return 0;
}
```

```
/tmp/8WAwVxnTmf.o
Enter two positive integers: 6 9
The LCM of 6 and 9 is 18.
```

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Programiz

C Online Compiler

main.c

Run

Output

```c
#include <stdio.h>

int main() {
   int year;
   printf("enter a year");
   scanf("%d",&year);
   if (((year % 4 == 0) && (year % 100!= 0)) || (year%400 == 0))
      printf("%d is a leap year", year);
   else
      printf("%d is not a leap year", year);

   return 0;
}
```

```
/tmp/GfLNziTskQ.o
enter a year2005
2005 is not a leap year
```

main.c

Run

```c
#include<stdio.h>

int main() {

  char fname[20], mname[20], lname[20];
  printf("Enter The First Name, Middle Name and Last Name \n");
  scanf("%s %s %s", fname, mname, lname);
  printf("Abbreviated Name: ");
  printf("%c. %c. %s\n", fname[0], mname[0], lname);
  return 0;
}
```

Output

Clear

```
/tmp/xXnA3SQ25B.o
Enter The First Name, Middle Name and Last Name
shivam kumar khandelwal
Abbreviated Name: s. k. khandelwal
```

main.c

Run

Output

```c
#include <stdio.h>
int main() {
  int n, reverse = 0, remainder;
  printf("Enter an integer: ");
  scanf("%d", &n);
  while (n != 0) {
    remainder = n % 10;
    reverse = reverse * 10 + remainder;
    n /= 10;
  }
  printf("Reversed number = %d", reverse);
  return 0;
}
```

```
/tmp/8WAwVxnTmf.o
Enter an integer: 25
Reversed number = 52
```

main.c

Run

Output

```c
#include<stdio.h>
int main()
{
  int n, reverse = 0, rem, temp;
  printf("Enter Number to Check Palindrome Number or Not:\n");
  scanf("%d", & n);
  temp = n;
  while (temp != 0) {
    rem = temp % 10;
    reverse = reverse * 10 + rem;
    temp /= 10;
  }
  if (reverse == n)
    printf("%d is a Palindrome Number.", n);
  else
    printf("%d is Not a Palindrome Number.", n);
  return 0;
}
```

```
/tmp/8WAwVxnTmf.o
Enter Number to Check Palindrome Number or Not:
242
242 is a Palindrome Number.
```

main.c

Run

Output

```c
#include <stdio.h>
int main() {
  long long n;
  int count = 0;
  printf("Enter an integer: ");
  scanf("%lld", &n);
  do {
    n /= 10;
    ++count;
  } while (n != 0);
  printf("Number of digits: %d", count);
}
```

```
/tmp/zcRoG93g6W.o
Enter an integer: 2411
Number of digits: 4
```

Programiz C Online Compiler

main.c

Run

```c
#include <stdio.h>
int main()
{
    int num,rem,reverse=0;
    printf("Enter a number for find reverse\n");
    scanf("%d",&num);
    printf("You entered %d\n",num);
    for(;num!=0; num=num/10){
        rem=num%10;
        reverse=reverse*10+rem;
    }
    printf("Reverse of the given number %d",reverse);
    return 0;
}
```

Output

```
/tmp/BZbdkM7jZq.o
Enter a number for find reverse
589
You entered 589
Reverse of the given number 985
```

main.c

Run

```c
#include <stdio.h>
int main()
{
 int principal, rate, time, interest;
 printf("Enter the principal: ");
  scanf("%d", &principal);
 printf("Enter the rate: ");
 scanf("%d", &rate);
 printf("Enter the time: ");
  scanf("%d", &time);
interest = principal * rate * time / 100;
    printf("The Simple interest is %d", interest);
 return 0;
}
```

Output

```
/tmp/GwrCLBqrAu.o
Enter the principal: 2500
Enter the rate: 5
Enter the time: 6
The Simple interest is 750
```

Programiz C Online Compiler

main.c

Run

Output

```c
int main()
{
  char op;
  double first, second;
  printf("Enter an operator (+, -, *, /): ");
  scanf("%c", &op);
  printf("Enter two operands: ");
  scanf("%lf %lf", &first, &second);
  switch (op) {
    case '+':
      printf("%.1lf + %.1lf = %.1lf", first, second, first + second);
      break;
    case '-':
      printf("%.1lf - %.1lf = %.1lf", first, second, first - second);
      break;
    case '*':
      printf("%.1lf * %.1lf = %.1lf", first, second, first * second);
      break;
    case '/':
      printf("%.1lf / %.1lf = %.1lf", first, second, first / second);
      break;
    default:
      printf("Error! operator is not correct");
  }
  return 0;
}
```

```
/tmp/bTCo6up4x8.o
Enter an operator (+, -, *, /): -
Enter two operands: 2 5
2.0 - 5.0 = -3.0
```

main.c

Run

```c
#include <stdio.h>
int main() {
  int n, i, range;
  printf("Enter an integer: ");
  scanf("%d", &n);
  do {
    printf("Enter the range (positive integer): ");
    scanf("%d", &range);
  } while (range <= 0);
  for (i = 1; i <= range; ++i) {
    printf("%d * %d = %d \n", n, i, n * i);
  }
  return 0;
}

```

Output

```
/tmp/LHP5IMjxwk.o
Enter an integer: 9
Enter the range (positive integer): 10
9 * 1 = 9
9 * 2 = 18
9 * 3 = 27
9 * 4 = 36
9 * 5 = 45
9 * 6 = 54
9 * 7 = 63
9 * 8 = 72
9 * 9 = 81
9 * 10 = 90
```

main.c

Run

```c
#include <stdio.h>
int main() {
    int n, i, sum = 0;
    printf("Enter a positive integer: ");
    scanf("%d", &n);
    for (i = 1; i <= n; ++i) {
        sum += i;
    }
    printf("Sum = %d", sum);
    return 0;
}
```

Output

```
/tmp/8WAwVxnTmf.o
Enter a positive integer: 25
Sum = 325
```

main.c

Run

```c
#include <stdio.h>

int main() {
  printf("Size of Int Data Types in C = %2d bytes \n", sizeof(short int));
  printf("Size of Long Int Data Types in C = %2d bytes \n", sizeof(long int));
  printf("Size of Float Data Types in C = %2d bytes \n", sizeof(float));
  printf("Size of Double Data Types in C = %2d bytes \n", sizeof(double));
  printf("Size of Long Double Data Types in C = %2d bytes \n", sizeof(long double));
  printf("Size of Char Data Types in C = %2d bytes \n", sizeof(char));
  return 0;
}
```

Output

Clear

```
/tmp/ucXFZG3xTt.o
Size of Int Data Types in C =  2 bytes
Size of Long Int Data Types in C =  8 bytes
Size of Float Data Types in C =  4 bytes
Size of Double Data Types in C =  8 bytes
Size of Long Double Data Types in C = 16 bytes
Size of Char Data Types in C =  1 bytes
```

Programiz C Online Compiler

main.c

Run

Output

```
{
    int dd,mm,yy;
   printf("Enter date (DD/MM/YYYY format): ");
    scanf("%d/%d/%d",&dd,&mm,&yy);
    if(yy>=1900 && yy<=9999)
    {
        if(mm>=1 && mm<=12)
        {
            if((dd>=1 && dd<=31) && (mm==1 || mm==3 || mm==5 || mm==7 || mm==8 ||
                mm==10 || mm==12))
                printf("Date is valid.\n");
            else if((dd>=1 && dd<=30) && (mm==4 || mm==6 || mm==9 || mm==11))
                printf("Date is valid.\n");
            else if((dd>=1 && dd<=28) && (mm==2))
                printf("Date is valid.\n");
            else if(dd==29 && mm==2 && (yy%400==0 ||(yy%4==0 && yy%100!=0)))
                printf("Date is valid.\n");
            else
                printf("Day is invalid.\n");
        }
        else
        {
            printf("Month is not valid.\n");
        }
    }
    else
```

```
/tmp/BZbdkM7jZq.o
Enter date (DD/MM/YYYY format): 24/11/2005
Date is valid.
```

main.c

Run

```c
#include <stdio.h>

int main() {

    double num;
    printf("Enter a number: ");
    scanf("%lf", &num);
    if (num <= 0.0) {
        if (num == 0.0)
            printf("You entered 0.");
        else
            printf("You entered a negative number.");
    }
    else
        printf("You entered a positive number.");

    return 0;
}
```

Output

Clear

```
/tmp/ucXFZG3xTt.o
Enter a number: -5
You entered a negative number.
```

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Programiz C Online Compiler

main.c

Run

Output

```c
#include <stdio.h>
int main()
{
    int age;
    printf("Enter age");
    scanf("%d", &age);
    if (age >= 18)
        printf("You can Vote!");
    else
        printf("You cant Vote!");
    return 0;
}
```

```
/tmp/6Wqf11tP2X.o
Enter age25
You can Vote!
```

main.c

Run

```c

#include <stdio.h>

int main() {
   char c;
   int lowercase_vowel, uppercase_vowel;
   printf("Enter an alphabet: ");
   scanf("%c", &c);
   lowercase_vowel = (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u');
   uppercase_vowel = (c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U');
   if (!isalpha(c))
      printf("Error! Non-alphabetic character.");
   else if (lowercase_vowel || uppercase_vowel)
      printf("%c is a vowel.", c);
   else
      printf("%c is a consonant.", c);
   return 0;
}
```

Output

Clear

```
/tmp/BZbdkM7jZq.o
Enter an alphabet: s
s is a consonant.
```

main.c

Run

```c
#include <stdio.h>
int main() {
    char c;
    int lowercase_vowel, uppercase_vowel;
    printf("Enter an alphabet: ");
    scanf("%c", &c);


    lowercase_vowel = (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u');


    uppercase_vowel = (c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U');


    if (lowercase_vowel || uppercase_vowel)
        printf("%c is a vowel.", c);
    else
        printf("%c is a consonant.", c);
    return 0;
}

```

Output

Clear

```
/tmp/mdaB0sYy3l.o
Enter an alphabet: g
g is a consonant.
```

main.c

Run

Output

```c
#include <stdio.h>
int main()
{
    int week;
    printf("Enter week number(1-7): ");
    scanf("%d", &week);
    switch(week)
    {
        case 1:
            printf("Monday");
            break;
        case 2:
            printf("Tuesday");
            break;
        case 3:
            printf("Wednesday");
            break;
        case 4:
            printf("Thursday");
            break;
        case 5:
            printf("Friday");
            break;
        case 6:
            printf("Saturday");
            break;
```

```
/tmp/zcRoG93g6W.o
Enter week number(1-7): 3
Wednesday
```