1. C Program To Print Student Details

```
C:\Users\student\Desktop\cprograms.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
                                                                  ::: □ ::: ::: □ ::: □ ::: □ :::
 🖳 🖳 🗏 📙
                           أو الله
              (globals)
cbasics.cpp cprograms.cpp
      #include<stdio.h>
      #include<string.h>
      int main()
 5 🖂 {
      //declaration of variable in integer
 6
 7
      int id;
 8
      //declaration of variable in charecters
      char Name[50], Department[50], Campus[50], University[50];
 9
10
      //to print name, student id, department, campus, university in output
          printf("Name:");
11
          scanf("%s", &Name);//%S to print name in charecter
12
          printf("Student id:");
13
          scanf("%d", &id);//%d is to print id in integer
14
          printf("Enter Department:");
15
          scanf("%s", &Department);
16
          printf("Enter Campus:");
17
18
          scanf("%s", &Campus);
          printf("Enter University:");
19
          scanf("%s", &University);
20
          printf("Name Of The Student Is:%s\n", Name);
21
          printf("ID Of The Student Is:%d\n", id);
22
23
          printf("Department Of The Student Is:%s\n", Department);
24
          printf("Campus Of The Student Is:%s\n", Campus);
25
          printf("University Of The Student Is:%s\n", University);
26
      return 0;
27
```

OUTPUT:

2. C Program for the Addition of two given numbers

```
C:\Users\student\Desktop\cbasics.cpp - [Executing] - Dev-C++ 5.11
         Search
                View Project Execute Tools AStyle Windo
 a 🔁 🛄
             (globals)
[*] cbasics.cpp | cprograms.cpp
      #include<stdio.h>
 2
      int main()
 3 □ {
          int a,b,c;
 4
          printf("enter a number:");
 5
          scanf("%d", &a);
 6
          printf("enter another number:");
 7
          scanf("%d", &b);
 8
 9
          c=a+b;
         printf("addition is=%d", c);
10
11
         return 0;
12
```

OUTPUT:

C:\Users\student\Desktop\cbasics.exe

```
enter another number:8
addition is=17
-----
Process exited after 4.809 seconds with return value 0
Press any key to continue . . . _
```

3. C Program for the Subtraction of two given numbers

Output:

```
enter a value:789
enter b value:456
subtraction=333
------
Process exited after 4.992 seconds with return value 0
Press any key to continue . . .
```

4. C Program for the Multiplication of two given numbers

```
C:\Users\student\Desktop\cbasics.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
                      🤝 🧀
 al 🔁 🔳
            (globals)
cbasics.cpp cprograms.cpp
     #include<stdio.h>
     int main()
 3 □ {
 4
        int a,b,c;
 5
       printf("enter a number:");
 6
        scanf("%d", &a);
 7
       printf("enter another number:");
 8
        scanf("%d", &b);
 9
        c=a*b;
        printf("multiplication is=%d", c);
10
11
        return 0;
12 L }
```

Output:

C:\Users\student\Desktop\cbasics.exe

```
enter a number:8
enter another number:9
multiplication is=72
------
Process exited after 2.153 seconds with return value 0
Press any key to continue . . .
```

5. C Program to print an integer:

```
C:\Users\student\Desktop\cprograms.cpp - Dev-C++ 5.11
File Edit Search
               View Project Execute Tools AStyle Window Help
 a 🔁 🔳
             (globals)
[*] Untitled1 cprograms.cpp
     //c program to print an integer
     #include<stdio.h>
     int main()
 3
 4 🗐 {
     //declaration of variables
 6
 7
    printf("enter a value:");
     scanf("%d", &a);
     printf("Entered integer is=%d", a);
10
     return 0;
11
```

Output:

```
Enter an integer:50
you entered: 50
Process exited after 4.49 seconds with return value 0
Press any key to continue . . . _
```

6. C Program to print a float:

```
[*] Untitled1 [*] cprograms.cpp
    //c program to print float
    #include<stdio.h>
     int main()
3
4 🖵 {
    //declaration of variables
    float a;
    //to print float variable
7
        printf("Enter an float:");
8
        scanf("%f",&a);
9
        printf("you entered float: %f", a);
10
    return 0;
12 - }
```

Output:

```
Enter an float:9.4
you entered float: 9.400000
Process exited after 3.466 seconds with return value 0
Press any key to continue . . .
```

7. C Program to print a Character:

```
C:\Users\student\Desktop\cprograms.cpp - [Executing] - Dev-C++ 5.11
File Edit Search
               View Project Execute Tools AStyle Window Help
 a 🔁 🔳
             (globals)
[*] Untitled1 cprograms.cpp
     //c program to print charecter
     #include<stdio.h>
 3
     int main()
 4 🗐 {
     //declaration of variables
 6
 7
      //to print charecter variable
 8
         printf("Enter a charecter:");
         scanf("%c",&a);
 9
10
         printf("you entered char: %c", a);
11
      return 0;
   L } I
```

Output:

```
Enter a charecter:pooja
you entered char: p
------
Process exited after 2.643 seconds with return value 0
Press any key to continue . . . _
```

8. C Program to print ASCII value of the given Character:

```
C:\Users\student\Desktop\cprograms.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
                                                             ♦ →
                         a 🗗 🔳
             (globals)
[*] Untitled1 cprograms.cpp
     //c program to print ASCII value of charecter
     #include<stdio.h>
     int main()
 4 🖵 {
    //declaration of variables
 6
     char c;
 7
     //to print ASCII value of charecter
 8
         printf("Enter a charecter:");
         scanf("%c",&c);
        printf("ASCII value of entered charecter of %c=%d",c,c);
10
11
     return 0;
   L }
12
```

Output:

```
Enter a charecter:r
ASCII value of entered charecter of r=114
-----
Process exited after 1.91 seconds with return value 0
Press any key to continue . . .
```

9. C Program to Compute remainder and Quotient:

```
C:\Users\student\Desktop\cprograms.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
 ♦
                              a 🔁 🔳
              (globals)
[*] Untitled1 cprograms.cpp
       //c program to compute remainder and quotient
       #include<stdio.h>
      int main()
 4 □ {
       //declaration of variables
 5
      int dividend, divisor, quotient, remainder;
//to compute remainder and quotient
 6
 7
 8
          printf("Enter a dividend:");
scanf("%d", &dividend);
 9
          printf("enter a divisor");
scanf("%d", &divisor);
10
11
           remainder=dividend%divisor;
12
13
           quotient=dividend/divisor;
           printf("Remainder is: %d\n", remainder);
printf("Quotient is :%d", quotient);
14
15
16
      return 0;
      3
```

Output:

```
Enter a dividend:6
enter a divisor2
Remainder is: 0
Quotient is :3
------
Process exited after 4.27 seconds with return value 0
Press any key to continue . . .
```

10. C Program to print Size of a Variable:

```
C:\Users\student\Desktop\cprograms.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
                                                                             :: 🗆 🖪
 ♦
                               🗐 🔁 🔳
                (globals)
[*] Untitled1 cprograms.cpp
      //c program to find size of variable
       #include<stdio.h>
       int main()
  4 □ {
       //declaration of variables
       int inttype;
  6
  7
       float floattype;
       char chartype;
  8
       //to find size of variable
  9
           printf("size of int:%zu bytes\n", sizeof(inttype));
printf("size of float:%zu bytes\n", sizeof(floattype));
printf("size of char:%zu bytes\n", sizeof(chartype));
10
11
12
13
       return 0;
14 | } |
```

Output:

```
size of int:4 bytes
size of float:4 bytes
size of char:1 bytes

------
Process exited after 0.05781 seconds with return value 0
Press any key to continue . . .
```

11. C Program to Swap two numbers:

```
C:\Users\student\Desktop\cprograms.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
                                                                  # □ # # | ≥
 ←
                           a 🔁 🔳
             (globals)
[*] Untitled1 cprograms.cpp
     //c program to swap two numbers
      #include<stdio.h>
     int main()
 3
 4 □ {
 5
      //declaration of variables
 6
      int a,b,temp;
      //to swap two numbers
 7
          printf("enter a first number:");
 8
          scanf("%d", &a);
printf("enter a second number:");
scanf("%d", &b);
 9
10
11
          temp=a;
12
13
          a=b;
14
          b=temp;
          printf("swap of a number is:%d\n",a);
15
          printf("swap of a number is:%d\n",b);
16
17
      return 0;
18
```

Output:

12.C Program using long keyword:

```
C:\Users\student\Desktop\cprograms.cpp - Dev-C++ 0.11
File Edit Search View Project Execute Tools AStyle Window Help
                                                               🗐 🔁 🔳
            (globals)
[*] Untitled1 cprograms.cpp
     //c program using long keyword
     #include<stdio.h>
 3
     int main()
 4 🗐 {
 5
      //declaration of variables
 6
     int a;
 7
     long b;
 8
     long long c;
 9
     double e;
10
     long double f;
     //program to print using long keyword
11
         printf("size of int=%zu bytes\n", sizeof(a));
12
         printf("size of long int=%zu bytes\n", sizeof(b));
13
         printf("size of long long int=%zu bytes\n", sizeof(c));
14
15
         printf("size of double=%zu bytes\n", sizeof(e));
16
         printf("size of long double=%zu bytes\n", sizeof(f));
17
     return 0;
   L }
18
```

Output:

13.C Program to swap two numbers without using Third variable:

```
C:\Users\student\Desktop\cprograms.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
 ə] 🚱 🔳
            (globals)
[*] Untitled1 cprograms.cpp
      //c program to swap two numbers without using third variable
      #include<stdio.h>
 3
      int main()
 4 🖵 {
      //declaration of variables
 5
  6
      int a,b;
      printf("enter a first number:");
scanf("%d", &a);
 7
 8
      printf("enter a second number:");
scanf("%d", &b);
 9
10
      a=a+b;
11
      b=a-b;
      a=a-b;
13
      printf("a value is:%d\n",a);
printf("b value is:%d\n",b);
15
      return 0;
16
17
```

Output:

```
enter a first number:4
enter a second number:7
a value is:7
b value is:4
------
Process exited after 3.251 seconds with return value 0
Press any key to continue . . . _
```

14. C Program to print a person is eligible for vote or not

```
voting eligibility.cpp
1 //write a c programm for a person is eligible for vote or not?
    #include<stdio.h>
 3 int main()
4 🗐 {
         int age;
6
         printf("your age is:");
         scanf("%d",&age);
7
8
         if(age>=18)
9 🗀
10
             printf("you are eligible");
11
         else
12
13
         printf("you are not eligible");

14
15
16 L }
```

OUTPUT:

C:\Users\rupika\Documents\voting eligibility.exe

```
your age is:21
you are eligible
-----
Process exited after 2.474 seconds with return value 0
Press any key to continue . . .
```

15. C Programs to print simple interest

```
ts\simple interst.cpp - Dev-C++ 5.11
Project Execute Tools AStyle Window Help
            simple interst.cpp
       #include<stdio.h>
       int main()
  3 🖵 {
          int p,r,t,int_amt;
printf("principle:");
scanf("%d",&p);
  4
  5
  6
          printf("interstrate:");
scanf("%d",&r);
printf("time:");
  7
  8
  9
           scanf("%d",&t);
 10
          int_amt=(p*r*t)/100;
printf("simple interest=%d ", int_amt);
 11
 12
 13
           return 0;
 14 L }
 15
```

OUTPUT:

C:\Users\rupika\Documents\simple interst.exe

```
principle:10000
interstrate:10
time:12
simple interest=12000
-------
Process exited after 10.91 seconds with return value 0
Press any key to continue . . .
```

16. C Program to print smaller number among two numbers

```
C:\Users\student\Desktop\cbasics.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
                         ←
 a 🔁 🔳
             (globals)
cbasics.cpp cprograms.cpp
     //c program to print less number amoung two
     #include<stdio.h>
 3
     int main()
 4 🖵 {
 5
         int a,b;
         printf("enter a number:");
scanf("%d", &a);
 6
 7
         printf("enter another number:");
 8
 9
         scanf("%d", &b);
10
         if(a<b)
11 🖨
         printf("a is less");
12
13
14
         else
15 🖨
             printf("b is less");
16
17
18
         return 0;
19
```

OUTPUT:

C:\Users\student\Desktop\cbasics.exe

```
enter another number:6
a is less
-----
Process exited after 3.702 seconds with return value 0
Press any key to continue . . . _
```

17. C Program to print leap year or not

```
s\voting eligibility.cpp - [Executing] - Dev-C++ 5.11
roject Execute Tools AStyle Window Help
voting eligibility.cpp
    //write a c program for leap year or not?
    #include<stdio.h>
 3
     int main()
 4 □ {
 5
         int year;
        printf("enter the year:");
scanf("%d",&year);
 6
7
 8
         if(year%4==0)
 9 📮
10
             //nested if else
            if(year%100==0)
12 🖨
                if(year%400==0)
13
14
                  printf("is a leap year=%d",year);
15
                  printf("is not a leap year=%d",year);
16
17
18
            else
19
            printf("is a leap year=%d",year);
20
21
        printf("is not a leap year=%d",year);
23
         return 0;
24
25
```

OUTPUT:

C:\Users\rupika\Documents\voting eligibility.exe

```
enter the year:2000
is a leap year=2000
------
Process exited after 4.612 seconds with return value 0
Press any key to continue . . . _
```

18. C Program to print even or odd

```
C:\Users\rupika\Desktop\cp1.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
 □□ □□ □□ | ✓ | 🗰 | □□ | MDM-GCC 4.9.2 64-bit Release
 (globals)
Project Classes Debug [*] c program even or odd.cpp cp1.cpp
                       1 //write a c programm for the give number is even or odd
                            #include<stdio.h>
                            int main()
                        4 🖯 🧗
                                int num;
printf("enter an integer:");
scanf("%d",&num);
//true if number is perfectly divisible by 2
if(num%2==0)
                        5
                        6
                        7
                        8
                        9
                                printf("%d is even.",num);
                       10
                       11
                                else
                                printf("%d is odd.",num);
                       12
                       13
                                return 0;
                      14
```

OUTPUT:

C:\Users\rupika\Desktop\cp1.exe

```
enter an integer:24
24 is even.
------
Process exited after 2.588 seconds with return value 0
Press any key to continue . . .
```

19. C Program To Check Whether Armstrong Or Not

```
/*C Program to check whether the given number is Armstrong number or not*/
     #include <stdio.h>
     int main()
4 🗏 {
         int n,r,sum=0,temp;
         printf("Enter the number:");
 6
7
         scanf("%d",&n);
 8
         temp=n;
 9
         while (n>0)
10 -
11
             r=n%10;
12
             sum=sum+(r*r*r);
13
             n=n/10;
14
15
         if (temp==sum)
          printf("The entered number is an armstrong number");
16
17
18
          printf("The entered number is not an armstrong number");
19
20
```

OUTPUT:



C:\Users\POOJA.K\Desktop\Armstrong.exe

```
Enter the number:122
The entered number is not an armstrong number
Process exited after 8.125 seconds with return value 0
Press any key to continue . .
```

20. C Program To Check Given Number is Palindrome or not

```
/*C Program to check whether the given number is Palindrome or not*/
 2
     #include <stdio.h>
 3
     int main()
4 🖵 {
 5
         int temp, n, r=0;
         printf("Enter your number:");
 6
         scanf("%d",&n);
7
8
         temp=n;
9
         while (n!=0)
10 🖃
              r=r*10;
11
12
              r=r+n%10;
              n=n/10;
13
14
          if (temp==r)
15
16
              printf("The entered number is Palindrome");
17
18
19
         else
20 🗀
              printf("The entered number is not Palindrome");
21
22
23
24
```

OUTPUT:

C:\Users\POOJA.K\Desktop\Palindrome.exe

```
Enter your number:1331
The entered number is Palindrome
Process exited after 5.8 seconds with return value 0
Press any key to continue .
```

21. C Program To Print Factorial Of a Number

```
/*C Program t print Factorial of a given number*/
     #include <stdio.h>
     int main()
4 🗏 {
5
         int i,n,fact=1;
         printf("Enter a number:");
6
        scanf("%d",&n);
7
8
         for (i=1;i<=n;i++)
9
         fact=fact*i;
         printf("The factorial of %d is:%d",n,fact);
10
11
12
```

OUTPUT:

C:\Users\POOJA.K\Desktop\Factorial.exe

```
Enter a number:9
The factorial of 9 is:362880
-----
Process exited after 4.515 seconds with return value 0
Press any key to continue . . . _
```

22. C program to print reverse of entered number

```
/*C Program to print Reverse of the entered number*/
 2
     #include <stdio.h>
     int main()
 3
 4 🖵 {
          int n,r=0;
 5
          printf("Enter your number:");
 6
          scanf("%d",&n);
 7
 8
          while (n!=0)
 9 -
10
              r=r*10;
11
              r=r+n%10;
12
              n=n/10;
13
          printf("Reversed number is:%d",r);
14
15
```

OUTPUT:

C:\Users\POOJA.K\Desktop\Reverse.exe

```
Enter your number:6789
Reversed number is:9876
-----
Process exited after 3.193 seconds with return value 0
Press any key to continue . . .
```