

C ASSIGNMNET

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B39

AREA AND CIRCUMFERENCE OF CIRCLE

```
#include <stdio.h>

int main()
{
    float area,pi,circ,r;
    pi= 3.14;
    printf("enter the radius of circle");
    scanf("%f", &r);
    area= pi*r*r;
    circ= 2*pi*r;
    printf("circumference = %f", area);
    printf("area = %f", circ);
    return 0;
#include <stdio.h>
```

TEMPERATURE CONVERSION

C TO F

```
int main()
{
    int c,far;
    printf("enter the temp in celsius");
    scanf("%d",&c);
    far= (c*9/5)+32;
    printf("temperature in fahrenheit= %d",far);
    return 0;
}
```

ASCII VALUE OF CHARACTER

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

```
int main()
```

```
{
```

```
    char c;
```

```
    printf("enter the character");
```

```
    scanf("%c",&c);
```

```
    printf("ASCII value of c : %d",c);
```

```
    return 0;
```

```
}
```

AREA OF TRIANGLE

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

```
int main()
```

```
{
```

```
    int hei,base,area;
```

```
    printf("enter the base of the triangle");
```

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

```
    printf("enter the height of the triangle");
```

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

```
    area= (base*hei)/2;
```

```
    printf("area of the triangle : %d", area);
```

```
    return 0;
```

```
}
```

PERCENTAGE OF 5 SUBJECTS

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

```
int main()
```

```
{
```

```
    int a,b,c,d,e;
```

```
    float p,total;
```

```
    printf("enter the marks of subject a");
```

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

```
    printf("enter the marks of subject b");
```

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

```
    printf("enter the marks of subect c");
```

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

```
    printf("enter the marks of subject d");
```

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

```
    printf("enter the marks of subject e");
```

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

```
    total= (a+b+c+d+e);
```

```
    p= (total/500)*100;
```

```
    printf("perentage = %f",p);
```

```
    return 0;
```

```
}
```

SIZE OF DATA TYPES

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

```
int main()
```

```
{
```

```
    int intType;
```

```
    float floatType;
```

```
    char charType;
```

```
    double doubleType;
```

```
    printf("size of int %d", sizeof(intType));
```

```
    printf("size of float %d", sizeof(floatType));
```

```
    printf("size of char %d", sizeof(charType));
```

```
    printf("size of double %d", sizeof(doubleType));
```

```
    return 0;
```

```
}
```

POSTIVE OR NEGATIVE NUMBER

```
#include<stdio.h>

Int main()

1. {
2.  int num;
3.  printf("enter the number");
4.  scanf("%d",&num);
5.  if(num>=0)
6.  {
7.      printf("number is positive");
8.  }
9.  else{
10.      printf("number is negative");
11.  }
12.  return 0;
}
```


Vowel or consonant

```
int main()
{
    int num;
    printf("enter the number");
    scanf("%d",&num);
    if(num>=0)
    {
        printf("number is positive");
    }
    else{
        printf("number is negative");
    }
    return 0;
}
```

FACTORIAL OF A NUMBER

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

```
int main()
```

```
{
```

```
    char ch;
```

```
    printf("Enter any character: ");
```

```
    scanf("%c", &ch);
```

```
    if(ch >= 'A' && ch <= 'Z')
```

```
    {
```

```
        printf("%c' is uppercase alphabet.", ch);
```

```
    }
```

```
    else if(ch >= 'a' && ch <= 'z')
```

```
    {
```

```
        printf("%c' is lowercase alphabet.", ch);
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("%c' is not an alphabet.", ch);
```

```
    }
```

```
    return 0;
```

```
}
```

UPPERCASE AND LOWERCASE NUMBER

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

```
int main()
```

```
{
```

```
    char ch;
```

```
    printf("Enter any character: ");
```

```
    scanf("%c", &ch);
```

```
    if(ch >= 'A' && ch <= 'Z')
```

```
    {
```

```
        printf("%c' is uppercase alphabet.", ch);
```

```
    }
```

```
    else if(ch >= 'a' && ch <= 'z')
```

```
    {
```

```
        printf("%c' is lowercase alphabet.", ch);
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("%c' is not an alphabet.", ch);
```

```
    }
```

```
    return 0;
```

```
}
```

GREATEST BETWEEN THREE NUMBERS

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

```
int main()
```

```
{
```

```
    int a,b,c;
```

```
    printf("enter three numbers");
```

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

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

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

```
    if(a>b && a>c){
```

```
        printf("a is the greatest number");
```

```
    }
```

```
    else if(b>c && b>a){
```

```
        printf("b is the greatest number");
```

```
    }
```

```
    else{
```

```
        printf("c is the greatest number");
```

```
    }
```

```
    return 0;
```

```
}
```

ELIGIBLE FOR VOTING OR NOT

```
#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;
```

```
}
```

GREATER BETWEEN TWO NUMBER

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

```
int main()
```

```
{
```

```
    int a,b;
```

```
    printf("enter the first number");
```

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

```
    printf("enter the second number");
```

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

```
    if(a>b){
```

```
        printf("first number is greater");
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("second number is greater");
```

```
    }
```

```
}
```

GREATER BETWEEN TWO NUMBERS

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

```
int main()
```

```
{
```

```
    int a;
```

```
    printf("enter the number");
```

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

```
    if(a%2==0){
```

```
        printf("number is even");
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("number is odd");
```

```
    }
```

```
}
```

LEAP YEAR OR NOT

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

```
int main()
```

```
{
```

```
    int year;
```

```
    printf("ENTER A YEAR");
```

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

```
    if(year%400==0)
```

```
    {
```

```
        printf("its a leap year");
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("not a leap year");
```

```
    }
```

```
    return 0;
```

```
}
```


VOWEL USING IF AND ELSE

```
#include <stdio.h>

int main()
{
    char ch;

    printf("enter the character");
    scanf("%c",&ch);

    if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u'){
        printf("its a vowel");
    }

    else if(ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U' ){
        printf("its a vowel");
    }

    else{
        printf("its a consonent");
    }

    return 0;
}
```

GREATEST BETWEEN THREE NUMBERS USING NESTED LOOP

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

```
int main()
```

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

```
int main()
```

```
{
```

```
    int a,b,c;
```

```
    printf("enter three number");
```

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

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

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

```
    if(a>b){
```

```
        {
```

```
            if(a>b){
```

```
                printf("%d is the greatest number",a);
```

```
            }
```

```
        else{
```

```
            printf("%d is the greatest number",c);
```

```
        }
```

```
    }
```

```
}
```

```
else if(b>a){
```

```
if(b>c){  
    printf("%d is the greatest number",b);  
}  
else{  
    printf("%d is the greatest number",c);  
}  
}  
else{  
    printf("%d is the greatest number",c);  
}  
}
```

REVERSE OF NUMBER USING FOR LOOP

```
#include <stdio.h>

int main()
{
    int num,rev=0,rem,n;
    printf("enter the number");
    scanf("%d",&num);
    for(num>0;n=num;n=num/10)
    {
        rem=num%10;
        rev=(rev*10)+rem;
    }
    printf("%d reverse of the number",rev);
}
```

ARMSTRONG NUMBER

```
#include <stdio.h>

int main()
{
    int num,rem,n,arm=0;
    printf("enter the number");
    scanf("%d",&num);
    n=num;
    while(num>0)
    {
        rem= num%10;
        arm= arm+(rem*rem*rem);
        num= num/10;
    }
    if (arm==n){
        printf("%d is an armstrong number ",arm);
    }
    else{
        printf("its not an armstrong number");
    }

    return 0;
}
```

SIMPLE INTREST

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

```
int main()
```

```
{
```

```
    int p,r,t,si;
```

```
    printf("enter principal value");
```

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

```
    printf("enter rate");
```

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

```
    printf("enter time");
```

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

```
    si= (p*r*t)/100;
```

```
    printf("simple intrest = %d",si);
```

```
    return 0;
```

```
}
```

SUM OF NATURAL NUMBER

```
#include <stdio.h>

int main()
{
    int i=1,num,n=0;
    printf("enter the number");
    scanf("%d",&num);
    while(i<=num){
        n=n+i;
        i=i+1;
    }
    printf("sum of natural numbers = %d", n);

    return 0;
}
```

MULTIPLICATION TABLE

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

```
int main()
```

```
{
```

```
    int n,i=1,tab;
```

```
    printf("enter the number");
```

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

```
    for(i=1;i<=10;i++){
```

```
        tab=n*i;
```

```
        printf("%d\n",tab);
```

```
    }
```

```
}
```


GCD OF TWO NUMBER

```
#include <stdio.h>

int main()
{
    int n1, n2, i, GCD_Num;

    printf ( " Enter any two numbers: \n ");
    scanf ( "%d %d", &n1, &n2);


    for( i = 1; i <= n1 && i <= n2; ++i)
    {
        if (n1 % i ==0 && n2 % i == 0)
            GCD_Num = i;
    }

    printf (" GCD of two numbers %d and %d is %d.", n1, n2, GCD_Num);
    return 0;
}
```

LCM BETWEEN TWO NUMBERS

```
#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;
```

```
}
```

```
int main()
```

```
{
```

```
    char ch;
```

```
    printf("enter the character");
```

```
    scanf("%c",&ch);
```

REVERSE OF A NUMBER USING FOR LOOP

```
#include <stdio.h>

void main()
{
    int rev=0,rem=0,num;
    printf("enter the number");
    scanf("%d",&num);
    for(;num>0;num=num/10)
    {
        rem=num%10;
        rev=(rev*10)+rem;
    }
    printf("%d reverse of the number",rev);
}
```

PALINDROME NUMBER

```
#include <stdio.h>

void main()
{
    int rev=0,rem=0,num,p;
    printf("enter the number");
    scanf("%d",&num);
    p=num;
    for(;num>0;num=num/10)
    {
        rem=num%10;
        rev=(rev*10)+rem;
    }
    printf("%d reverse of the number",rev);
    if(rev==p){
        printf("its a palindrone nummber");
    }
    else{
        printf("its not a palindrone number");
    }
}
```

COUNTING NUMBER OF DIGITS

```
#include <stdio.h>

int main()
{
    int n;
    int count=0;
    printf("Enter a number");
    scanf("%d",&n);
    while(n!=0)
    {
        n=n/10;
        count++;
    }

    printf("\nThe number of digits in an integer is : %d",count);
    return 0;
}
```

SWITCH CASE WEEK

```
#include <stdio.h>

void main()
{
    int w;
    printf("enter the day");
    scanf("%d",&w);
    switch(w){
        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;
```

```
case 7 : printf("sunday");  
default: printf(" wrong input");  
}  
}
```

CALCULATOR USING SWITCH CASE

```
#include <stdio.h>

void main()
{
    int num,a,b;

    printf("enter 1 for addition, 2 for subtraction,3 for multiplication, 4 for division,");
    scanf("%d",&num);
    switch(num){
        case 1 : int add;
            printf("enter the value of a and b");
            scanf("%d",&a);
            scanf("%d",&b);
            add= a+b;
            printf("enter the value of a and b");
            scanf("%d",&a);
            scanf("%d",&b);
            printf("%d addition of two numbers=",add);
            break;
        case 2 :int sub;
            printf("enter the value of a and b");
            scanf("%d",&a);
            scanf("%d",&b);
            sub= a-b;
            printf("%d subtraction of two numbers =",sub);
```



```
break;
case 3 : int mul;
printf("enter the value of a and b");
scanf("%d",&a);
scanf("%d",&b);
mul = a*b;
printf("%d multiplication of two numbers =",mul);
break;
case 4 : int div;
printf("enter the value of a and b");
scanf("%d",&a);
scanf("%d",&b);
div =a/b;
printf("division of two numbers = ",div);
break;
default : printf("wrong input please type between 1 to 4");

}

}
```

GRADING STUDENT USING SWITCH CASE

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

```
int main()
```

```
{
```

```
    int marks;
```

```
    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" );
```

```
break;
```

case 6 :

```
printf("\n Your Grade is: D" );
```

```
break;
```

case 5 :

```
printf("\n Your Grade is: E" );
```

```
break;
```

case 4 :

```
printf("\n Your Grade is: E--");
```

```
break;
```

default :

```
printf("\n You Grade is: F or Fail\n");
```

```
}
```

```
}
```

```
return 0;
```

```
}
```

