**C Program to read a number and find its square.cpp**

#include<stdio.h>

int main()

{

int num,square;

printf("enter a number to be converted into square:");

scanf("%d",&num);

square = (num\*num);

{

printf("%d square is",num,square);

}

return 0;

}  
  
**Program to convert decimal to octal.cpp**

#include <stdio.h>

int main()

{

long decimalnum, remainder, quotient,octalnum=0;

int octalNumber[100], i = 1, j;

printf("Enter the decimal number: ");

scanf("%ld", &decimalnum);

quotient = decimalnum;

while (quotient != 0)

{

octalNumber[i++] = quotient % 8;

quotient = quotient / 8;

}

for (j = i - 1; j > 0; j--)

octalnum = octalnum\*10 + octalNumber[j];

printf("Equivalent octal value of decimal no %d is: %d ", decimalnum,octalnum);

return 0;

}  
  
**area of different shapes.cpp**

#include<stdio.h>

#include<math.h>

main(){

int choice;

printf("Enter\n1 to find area of Triangle\n2 for finding area of Square\n3 for finding area of Circle\n4 for finding area of Rectangle\n5 for Parallelogram\n");

scanf("%d",&choice);

switch(choice) {

case 1: {

int a,b,c;

float s,area;

printf("Enter sides of triangle\n");

scanf("%d%d %d",&a,&b,&c);

s=(float)(a+b+c)/2;

area=(float)(sqrt(s\*(s-a)\*(s-b)\*(s-c)));

printf("Area of Triangle is %f\n",area);

break;

}

case 2: {

float side,area;

printf("Enter Sides of Square\n");

scanf("%f",&side);

area=(float)side\*side;

printf("Area of Square is %f\n",area);

break;

}

case 3: {

float radius,area;

printf("Enter Radius of Circle\n");

scanf("%f",&radius);

area=(float)3.14159\*radius\*radius;

printf("Area of Circle %f\n",area);

break;

}

case 4: {

float len,breadth,area;

printf("Enter Length and Breadth of Rectangle\n");

scanf("%f %f",&len,&breadth);

area=(float)len\*breadth;

printf("Area of Rectangle is %f\n",area);

break;

}

case 5: {

float base,height,area;

printf("Enter base and height of Parallelogram\n");

scanf("%f %f",&base,&height);

area=(float)base\*height;

printf("Enter area of Parallelogram is %f\n",area);

break;

}

default: {

printf("Invalid Choice\n");

break;

}

}

}

**arthametic operations.** **#include<stdio.h>**

**int main()**

**{**

**int a,b,c;**

**printf("enter 1st number:");**

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

**printf("enter 2nd number:");**

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

**c = (a+b);**

**{**

**printf("sum is %d\n",c);**

**}**

**c = (a-b);**

**{**

**printf("sub is %d\n",c);**

**}**

**c = (a\*b);**

**{**

**printf("mul is %d\n",c);**

**}**

**c = (a/b);**

**{**

**printf("divd is %d\n",c);**

**}**

**c = (a%b);**

**{**

**printf("rem is %d\n",c);**

**}**

**return 0;**

**}  
  
largest number among three.cpp**

#include<stdio.h>

int main()

{

int a,b,c;

printf("enter 1st number:");

scanf("%d",&a);

printf("enter 2nd number:");

scanf("%d",&b);

printf("enter 3rd number:");

scanf("%d",&c);

if (a>b & a>c)

{

printf("%d is largest number",a);

}

else if (b>a & b>c)

{

printf("%d is largest number",b);

}

else

{

printf("%d is largest number",c);

}

return 0;

}  
  
**leap year2.cpp**

#include<stdio.h>

int main()

{

int year;

printf("enter the year:");

scanf("%d",&year);

if (year % 4 == 0 || year % 400 == 0)

{

printf("%d is a leap year",year);

}

else

{

printf("%d is not a leap year",year);

}

return 0;

}  
**n natural numbers.cpp**

#include <stdio.h>

int main()

{

int i, n;

printf("Enter any number: ");

scanf("%d", &n);

printf("Natural numbers from 1 to %d : \n", n);

for(i=1; i<=n; i++)

{

printf("%d\n", i);

}

return 0;

}  
  
**octal to decimal.cpp**

#include<stdio.h>

#include<math.h>

int OctalToDecimal(int n) {

int p = 0, decimal = 0, r;

while(n>0){

r = n % 10;

n = n / 10;

decimal = decimal + r \* pow( 8 , p );

++p;

}

return decimal;

}

int main() {

int n, i, k;

printf("Enter Octal: ");

scanf("%d", &n);

printf("\nDecimal of Octal Number %d is : %d", n, OctalToDecimal(n));

return 0;

}  
  
**palindrome.cpp**

#include<stdio.h>

int main()

{

int n,r,sum=0,temp;

printf("enter the number=");

scanf("%d",&n);

temp=n;

while(n>0)

{

r=n%10;

sum=(sum\*10)+r;

n=n/10;

}

if(temp==sum)

printf("palindrome number ");

else

printf("not palindrome");

return 0;

}  
**square of a number.cpp**

#include<stdio.h>

int main()

{

int num,square;

printf("enter a number to be converted into square:");

scanf("%d",&num);

square = (num\*num);

{

printf("square of given number is %d",square);

}

return 0;

}