

1. Program to convert decimal to hexadecimal

PROGRAM:

```
#include<stdio.h>

int main()
{
    int dec,rem,quo;
    int i=1,j,temp;
    char hexadecimalNumber[100];
    printf("Enter any decimal number: ");
    scanf("%ld",&dec);
    quo=dec;
    while(quo!=0) {
        temp=quo%16;
        if( temp<10)
            temp=temp+48;
        else
            temp=temp+55;
        hexadecimalNumber[i++]=temp;
        quo=quo/16;
    }
    printf("hexadecimal value of decimal number %d:",dec);
    for (j=i-1;j>0;j--)
        printf("%c",hexadecimalNumber[j]);
    return 0;
}
```

2. Program to convert Hexadecimal to decimal

PROGRAM:

```
#include <stdio.h>

int main()
{
```

```
int n;  
  
printf("enter hexadecimal number: ");  
  
scanf("%x",&n);  
  
printf("decimal number is: %d",n);  
  
return 0;  
  
}
```

3. Program to convert decimal to octal

PROGRAM:

```
#include <stdio.h>  
  
#include <math.h>  
  
int main()  
{  
  
    int octal,decimal=0;  
    int i=0;  
    printf("Enter an octal number: ");  
    scanf("%ld",&octal);  
    while(octal!=0)  
    {  
        decimal=decimal+(octal%10)*pow(8,i++);  
        octal=octal/10;  
    }  
    printf("Decimal value: %ld",decimal);  
    return 0;  
}
```

4. Program to convert octal to decimal

PROGRAM:

```
#include <stdio.h>  
  
int main()  
{
```

```
int num;

printf("Enter the decimal number: ");

scanf("%d", &num);

printf("Octal Number: %o", num);

return 0;

}
```

5. C Program to read a number and find its square

PROGRAM:

```
#include<stdio.h>

int main()

{

    int n,s;

    printf("the number is ");

    scanf("%d",&n);

    s=n*n;

    printf("the square of the %d number: %d ",n,s);

}
```

6. C Program to find the biggest of three numbers

PROGRAM:

```
#include<stdio.h>

int main()

{

    int a,b,c;

    printf("enter the a, b and c values: ");

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

    if(a>b && a>c)

    {

        printf("a is biggest of three numbers");

    }

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

    {
```

```
        printf("b is biggest of three numbers");
    }
    else
    {
        printf("c is biggest of three numbers");
    }
    return 0;
}
```

7. C Program to find leap year

PROGRAM:

```
#include<stdio.h>

int main()
{
    int year;
    printf("enter the year: ");
    scanf("%d",&year);
    if(year>0)
    {
        if(year%400==0)
        {
            printf("leap year");
        }
        else
        {
            printf("not leap year");
        }
    }
    else
    {
        printf("enter the correct year");
    }
}
```

```
    }  
}
```

8. C Program to prepare mark list using elif statement

PROGRAM:

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

```
int main()
```

```
{
```

```
    int m1,m2,m3,tot;
```

```
    float avg;
```

```
    printf("enter the first subject marks: ");
```

```
    scanf("%d",&m1);
```

```
    printf("enter the second subject marks: ");
```

```
    scanf("%d",&m2);
```

```
    printf("enter the third subject marks: ");
```

```
    scanf("%d",&m3);
```

```
    tot=m1+m2+m3;
```

```
    printf("total marks:%d\n",tot);
```

```
    avg=tot/3;
```

```
    printf("average:%f\n",avg);
```

```
    if (m1>=50 && m1<=100 && m2>=50 && m2<=100 && m3>=50 && m3<=100)
```

```
    {
```

```
        if (avg>=90)
```

```
        {
```

```
            printf("\ngrade A");
```

```
        }
```

```
        else if(avg<90 && avg>=80)
```

```
        {
```

```
            printf("\nGrade B");
```

```
        }
```

```
        else if(avg<80 && avg>=70)
```

```
        {
```

```
        printf("\nGrade C");
    }
    else if(avg<70 && avg>=60)
    {
        printf("\nGrade D");
    }
    else
    {
        printf("\nFail");
    }
}
else
{
    printf("\nenter the correct marks");
}
}
```

9. C Program to perform arithmetic operation on two numbers

PROGRAM:

```
#include<stdio.h>

int main()
{
    float a,b;
    float div;
    printf("enter a and b values: ");
    scanf("%d%d",&a,&b);
    printf("addition:%d",a+b);
    printf("subtraction:%d",a-b);
    printf("Multiplication:%d",a*b);
    div=a/b;
    printf("division:%.2f",div);
}
```

10. C Program to print n natural number

PROGRAM:

```
#include <stdio.h>

int main()
{
    int i,n;
    printf("enter the number");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        printf("%d\n",i);
    }
    return 0;
}
```

11. C Program to find area of different shapes

PROGRAM:

```
int main()
{
    int l,b,h,r,s;
    printf("enter the length: ");
    scanf("%d",&l);
    printf("enter the breadth: ");
    scanf("%d",&b);
    printf("enter the height: ");
    scanf("%d",&h);
    printf("enter the side: ");
    scanf("%d",&s);
    printf("enter the radius: ");
    scanf("%d",&r);
    printf("\narea of the circle: %.2f",3.14*r*r);
    printf("\narea of the square: %d",s*s);
}
```

```
        printf("\narea of the rectangle:%d",l*b);  
        printf("\narea of the triangle:%.2f",0.5*b*h);  
    }
```

12.C Program to check number is palindrome

PROGRAM:

```
#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;  
}
```