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1.C program to convert decimal to hexadecimal.

```
#include<stdio.h>
int main()
{
     int dec,rem,quo;
     int i=1,j,temp;
     char hexadecnum[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;
          hexadecnum[i++]=temp;
          quo=quo/16;
     }
```

```
printf("hexadecimal value of decimal number %d=",dec);
     for (j=i-1;j>0;j--)
       printf("%c",hexadecnum[j]);
     return 0;
}
2.C program to convert hexadecimal to decimal.
C PROGRAM:
#include <stdio.h>
int main()
{
  int n;
  printf("enter hexadecimal number: ");
  scanf("%x",&n);
  printf("decimal number is: %d",n);
  return 0;
}
3.C program to convert decimal to octal.
C PROGRAM:
#include <stdio.h>
int main()
```

```
int num;
  printf("Enter the decimal number: ");
  scanf("%d", &num);
  printf("Octal Number: %o", num);
  return 0;
}
4.C program to convert octal to decimal.
C 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;
```

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```
}
printf("Decimal value: %ld",decimal);
return 0;
}
```

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

#### **C PROGRAM:**

```
#include<stdio.h>
int main()
{
    int sq,n;
    printf("enter a number ");
    scanf("%d",&n);
    printf("The given number is %d",n);
    sq=n*n;
    printf("\nsquare of given number=%d",sq);
}
```

6.C Program to find the biggest of three numbers.

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

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```
float a,b,c;
   printf("enter a,b and c values ");
   scanf("%f%f%f",&a,&b,&c);
   if(a>b && a>c)
   {
         printf("a is greatest");
   }
else if(b>c && b>a)
   {
   printf("b is greatest");
   }
else if(c>a && c>b)
   {
   printf("c is greatest");
else
   {
   printf("same value");
   }
```

}

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### 7.C Program to find leap year.

```
#include<stdio.h>
main()
{
     int n;
     printf("enter a year ");
      scanf("%d",&n);
     if(n>0)
     {
           if(n%4==0)
           {
                 printf("leap year");
           }
           else
           {
                 printf("not a leap year");
      }
     else
     {
```

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```
printf("enter valid year");
}
```

8.C Program to prepare mark list using elif statement.

```
#include<stdio.h>
int main()
{
     int m1,m2,m3,tot;
     float avg;
     printf("enter the three subject marks: ");
     scanf("%d%d%d",&m1,&m2,&m3);
     tot=m1+m2+m3;
     printf("total marks:%d\n",tot);
     avg=tot/3;
     printf("average:%f",avg);
     if (m1>=0 && m1<=100 && m2>=0 && m2<=100 && m3>=0 &&
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 if(avg<60 && avg>=50)
{
     printf("\nGrade E");
}
else
     printf("\nFail");
```

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```
}
}
else
{
    printf("\nenter the correct marks");
}
```

9.C Program to perform arithmetic operation on two numbers.

```
#include<stdio.h>
int main()
{
    float a,b;
    printf("enter a and b values");
    scanf("%f%f",&a,&b);
    printf("addition=%.2f",a+b);
    printf("\nsubbtraction=%.2f",a-b);
    printf("\nmultilpication=%.2f",a*b);
    printf("\ndivision=%.2f",a/b);
}
```

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#### 10.C Program to print n natural number.

#### **C PROGRAM:**

```
#include<stdio.h>
int main()
{
    int n,i;
    printf("enter number");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        printf("%d\n",i);
    }
    return 0;
}</pre>
```

### 11.C Program to find area of different shapes.

```
#include<stdio.h>
#include<math.h>
int main()
{
    int l,b,h,r,s;
```

```
printf("enter the length: ");
     scanf("%d",&I);
     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.
C 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("Number is Palindrome");
     else
     printf("Number is not Palindrome");
}
```