T.INDU PRIYA 192110486

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]);
}
```

T.INDU PRIYA 192110486

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.

```
#include <stdio.h>
int main()
{
   int num;
   printf("Enter the decimal number: ");
   scanf("%d", &num);
   printf("Octal Number: %o", num);
}
```

T.INDU PRIYA 192110486

4.C program to convert octal to decimal.

```
#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;
}
```

T.INDU PRIYA 192110486

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()
{
    float a,b,c;
    printf("enter a,b and c values ");
    scanf("%f%f%f",&a,&b,&c);
```

T.INDU PRIYA 192110486

```
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");
 }
```

7.C Program to find leap year.

C PROGRAM:

}

#include<stdio.h>

T.INDU PRIYA 192110486

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

T.INDU PRIYA 192110486

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)
```

T.INDU PRIYA 192110486

```
{
        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");
  }
else
```

}

T.INDU PRIYA 192110486

```
{
    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);
}
```

T.INDU PRIYA 192110486

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 exp;
```

T.INDU PRIYA 192110486

```
float r,a1,a2,a3,a4;
   float I,b,h,s;
   printf("1.Area of circle \n2.Area of triangle \n3.Area of
square\n4.Area of rectangle");
   printf("\nenter a choice ");
   scanf("%d",&exp);
   switch(exp)
   {
     case 1:
           printf("enter radius of circle");
           scanf("%f",&r);
           a1=3.14*r*r;
           printf("Area of circle=%.2f",a1);
           break;
     case 2:
           printf("enter breadth and height triangle ");
           scanf("%f %f",&b,&h);
           a2=0.5*b*h;
           printf("Area of triangle=%.2f",a2);
           break;
     case 3:
```

T.INDU PRIYA 192110486

```
printf("enter side of square");
           scanf("%f/n%f",&s);
           a3=s*s;
           printf("Area of square=%.2f",a3);
           break;
     case 4:
           printf("enter length and breadth of rectangle ");
           scanf("%f %f",&I,&b);
           a4=l*b;
           printf("Area of rectangle=%.2f",a4);
           break;
     default:
           printf("enter valid choice");
   }
}
```

T.INDU PRIYA 192110486

12.C Program to check number is palindrome.

```
#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");
}
```