# CSA5734-FUNDAMENTALS OF COMPUTING FOR DATABASE SYSTEM

DATE:06-10-2022 NAME:B.VINEETHA

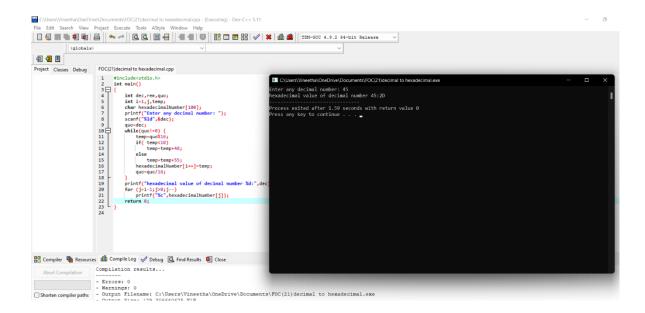
DAY:03 REG.NO:192110487

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;
```



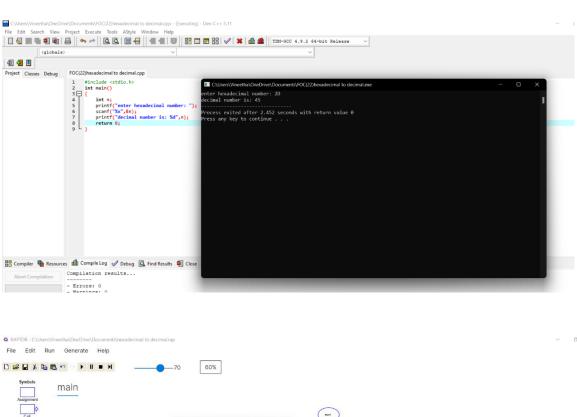
#### 2. Program to convet Hexadecimal to decimal

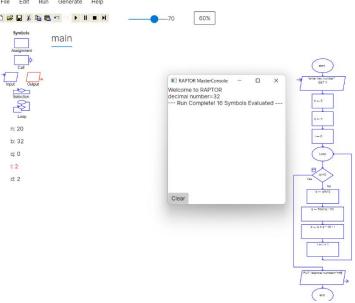
#### PROGRAM:

}

```
#include <stdio.h>
int main()
{
   int n;
   printf("enter hexadecimal number: ");
   scanf("%x",&n);
```

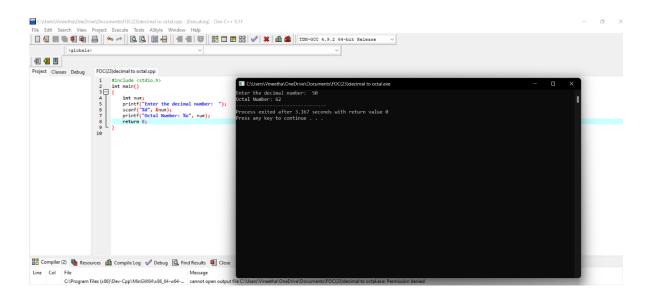
```
printf("decimal number is: %d",n);
return 0;
}
```





3. Program to convert decimal to octal

```
#include <stdio.h>
int main()
{
   int num;
   printf("Enter the decimal number: ");
   scanf("%d", &num);
   printf("Octal Number: %o", num);
   return 0;
}
```



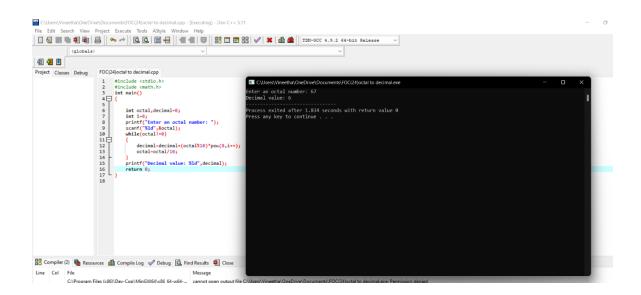
#### 4. Program to convert octal to decimal

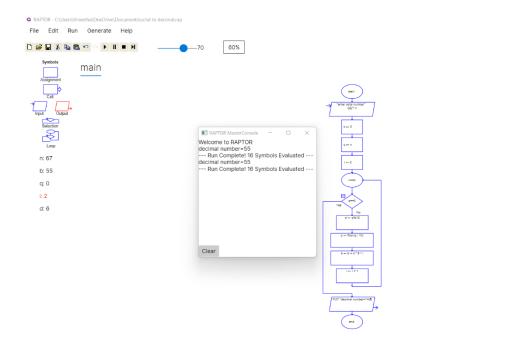
```
PROGRAM:
#include <stdio.h>
#include <math.h>
int main()
```

```
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;
```

{

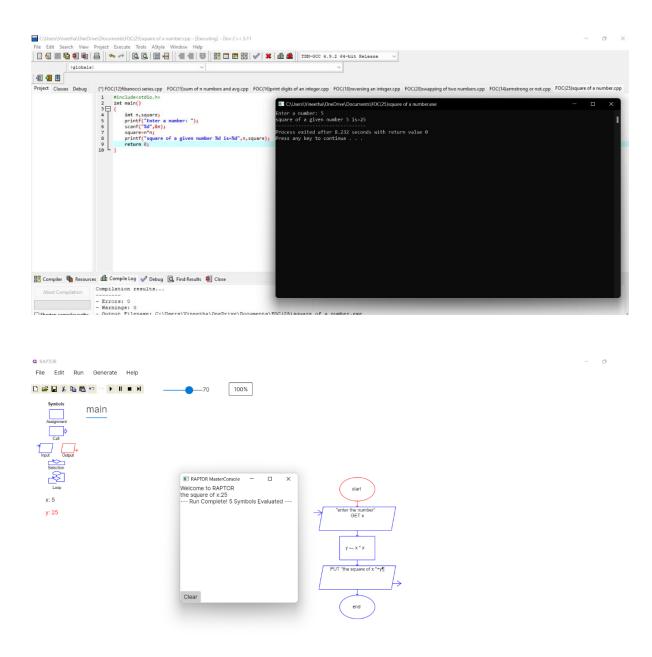
}





#### 5. C PROGRAM TO READ A NUMBER AND FIND ITS SQUARE

```
#include<stdio.h>
int main()
{
   int n,square;
   printf("Enter a number: ");
   scanf("%d",&n);
   square=n*n;
   printf("square of a given number %d is=%d",n,square);
   return 0;
}
```



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

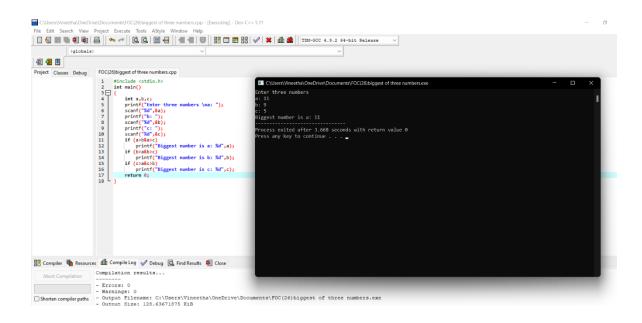
#### PROGRAM:

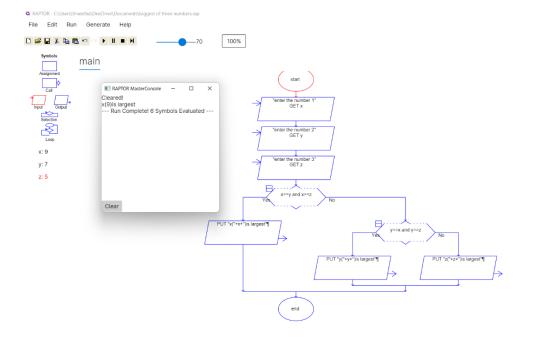
```
#include <stdio.h>
```

int main()

{

```
int a,b,c;
printf("Enter three numbers \na: ");
scanf("%d",&a);
printf("b: ");
scanf("%d",&b);
printf("c: ");
scanf("%d",&c);
if (a>b&a>c)
    printf("Biggest number is a: %d",a);
if (b>a&b>c)
    printf("Biggest number is b: %d",b);
if (c>a&c>b)
    printf("Biggest number is c: %d",c);
return 0;
}
```



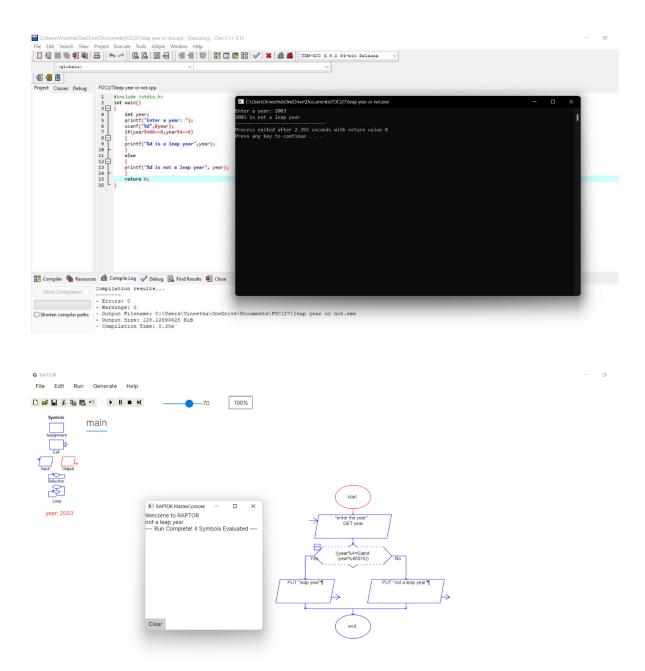


# 7. C Program to find leap year

```
#include <stdio.h>
int main()
{
    int year;
    printf("Enter a year: ");
    scanf("%d",&year);
    if(year%400==0,year%4==0)
      {
        printf("%d is a leap year",year);
      }
      else
        {
        printf("%d is not a leap year", year);
      }
}
```

```
return 0;
```

}



# 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");
             }
}
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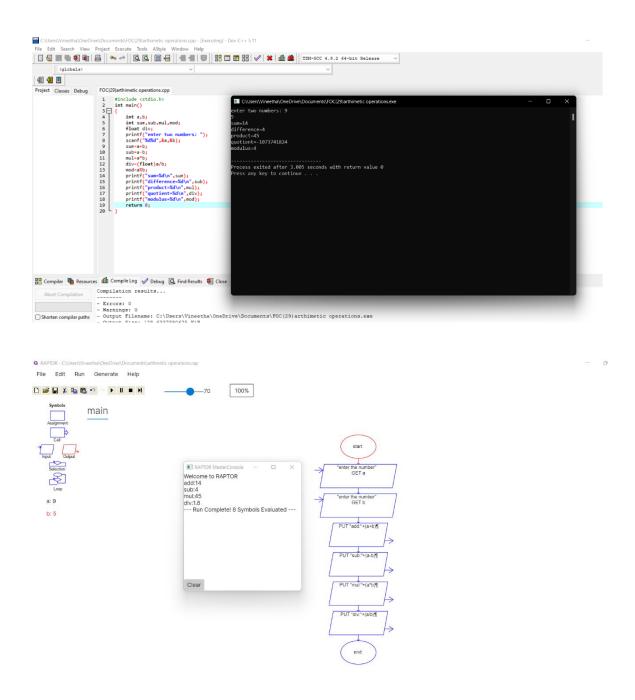
Output

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   a 🖢 🗓
                                              arkistcpp
int min2,003,tot;
float avg;
printf("enter the first subject marks: ");
scanf("Md",8m1);
printf("enter the second subject marks: ");
scanf("Md",8m2);
printf("enter the third subject marks: ");
scanf("Md",8m3);
tot=min2,003,marks:Md\n",tot);
supprintf("ark marks:Md\n",tot);
supprintf("ark marks:Md\n",tot);
supprintf("ark marks:Md\n",tot);
supprintf("ark marks:Md\n",tot);
if (m1>=50 && m1<=100 && m2>=50 && m2<=100 && m3>=50 && m3<=100)</pre>
                                 printf("\ngrade A");
                                                        printf("\nGrade B");
                                                    } else if(avg<80 && avg>=70)
                                                        printf("\nGrade C");
                                                     } else if(avg<70 && avg>=60)
                                                        printf("\nGrade D");
 Compiler 🖣 Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results 💐 Close
     Abort Compilation Compilation results...
 - Errors: 0
D ≥ B & B ≠ P P H ■ H
                                                                                             60%
                                 ■ RAPTOR MasterConsole — ☐ X
Welcome to RAPTOR
grade A
--- Run Complete! 8 Symbols Evaluated ---
        Selection
Loop
       m2: 85
                                                                                                              avg — tot / 3
       m3: 89
       tot: 270
       avg: 90
```

end

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

```
#include <stdio.h>
int main()
{
   int a,b;
   int sum, sub, mul, mod;
   float div;
   printf("enter two numbers: ");
   scanf("%d%d",&a,&b);
   sum=a+b;
   sub=a-b;
   mul=a*b;
   div=(float)a/b;
   mod=a%b;
   printf("sum=%d\n",sum);
   printf("difference=%d\n",sub);
   printf("product=%d\n",mul);
   printf("quotient=%d\n",div);
   printf("modulus=%d\n",mod);
   return 0;
}
```



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

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

```
int i,n;
      printf("enter number: ");
      scanf("%d",&n);
      for(i=1;i<=n;i++)
      {
           printf("%d\n",i);
      }
      return 0;
}
printf("%d\n",i);
                                                cess exited after 2.476 seconds with return value 0 ss any key to continue . . .
Compiler 🖣 Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results
Abort Compilation

- Errors: 0

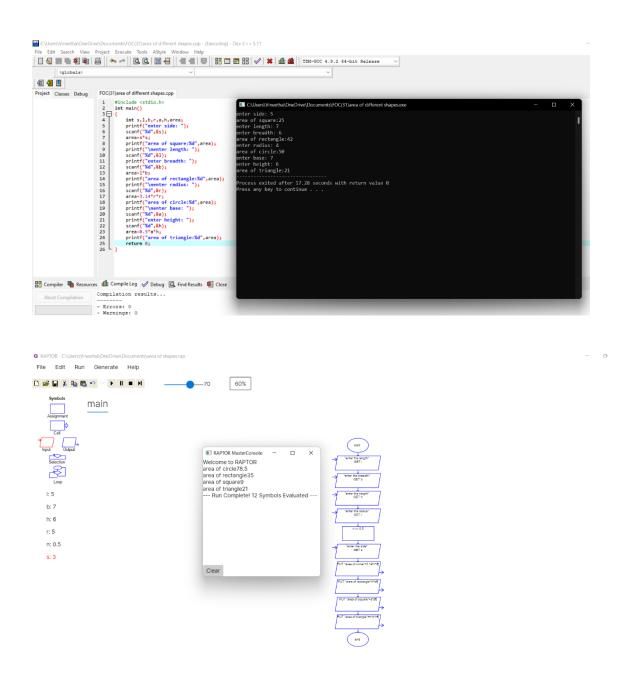
- Warnings: 0

Shorten compiler paths - Output Filename: Ci\Usera\Vineetha\OneDrive\Documents\FOC(30)n natural numbers.exe
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                                    ——70 80%
              Main
                                            - Run Complete! 14 Symbols Evaluated ---
```

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

```
PROGRAM:
#include <stdio.h>
int main()
{
   int s,l,b,r,a,h,area;
   printf("enter side: ");
   scanf("%d",&s);
   area=s*s;
   printf("area of square:%d",area);
   printf("\nenter length: ");
   scanf("%d",&l);
   printf("enter breadth: ");
   scanf("%d",&b);
   area=l*b;
    printf("area of rectangle:%d",area);
   printf("\nenter radius: ");
   scanf("%d",&r);
    area=3.14*r*r;
   printf("area of circle:%d",area);
    printf("\nenter base: ");
   scanf("%d",&a);
   printf("enter height: ");
   scanf("%d",&h);
   area=0.5*a*h;
   printf("area of triangle:%d",area);
   return 0;
```

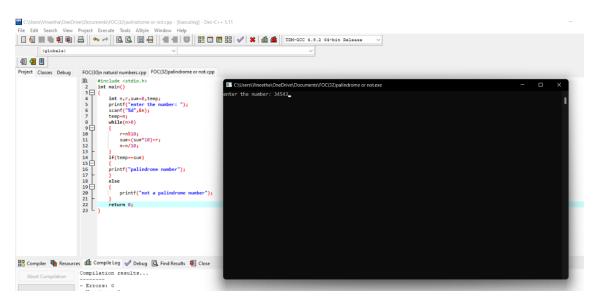
}

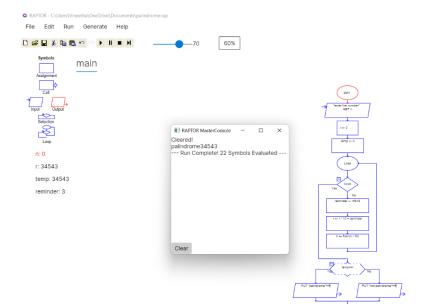


## 12. C Program to check number is palindrome

```
#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("palindrome number");
  }
   else
   {
      printf("not a palindrome number");
   }
   return 0;
}
```





- 0