

# *CSA5734-FUNDAMENTALS OF COMPUTING FOR DATABASE SYSTEM*

DATE:06-10-2022

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DAY:03

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## 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--)
```

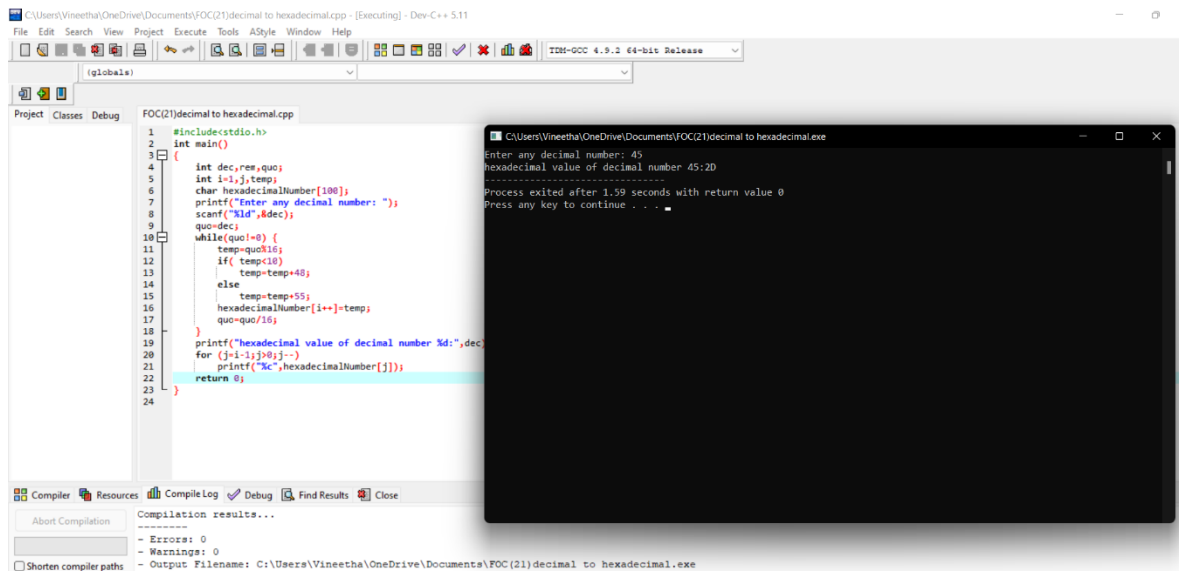
```

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: ");

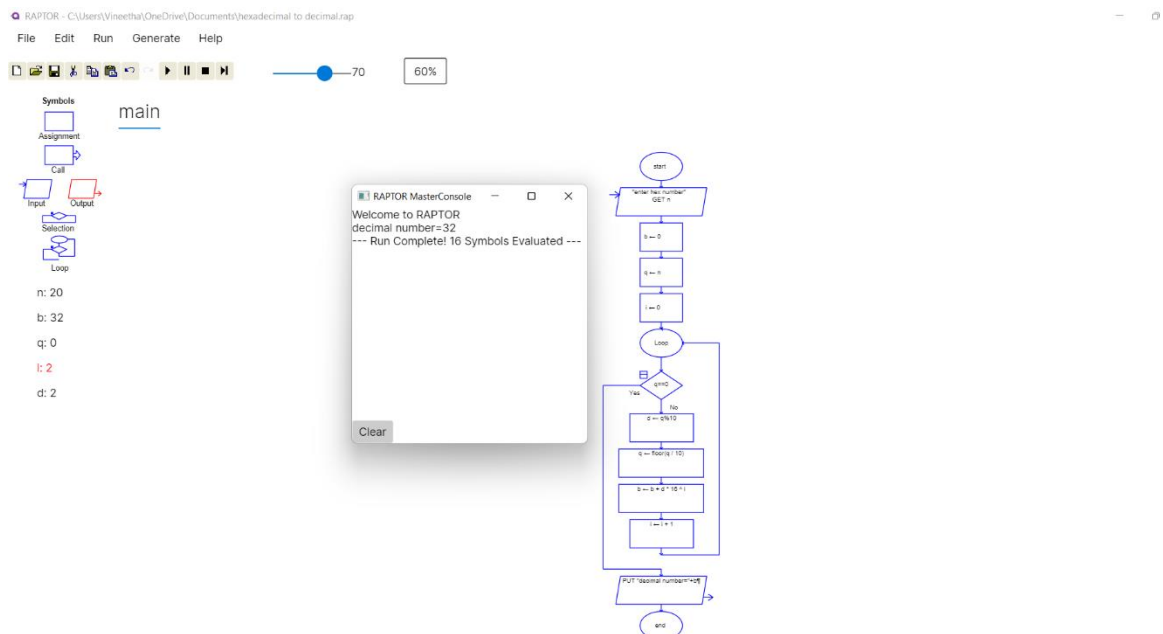
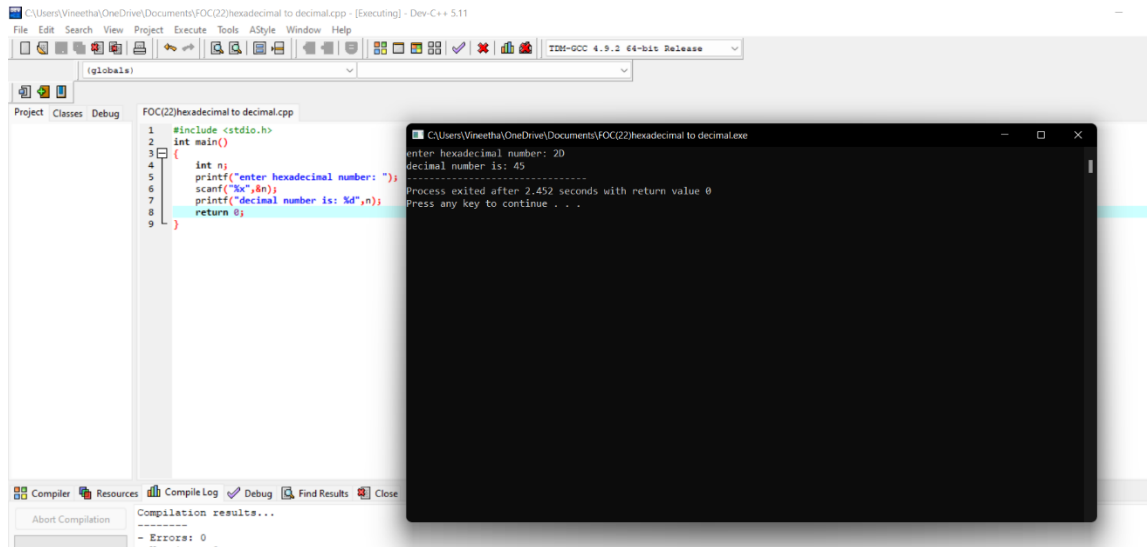
    scanf("%x",&n);

```

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

```
return 0;
```

```
}
```



### 3. Program to convert decimal to octal

**PROGRAM:**

```

#include <stdio.h>

int main()
{
    int num;

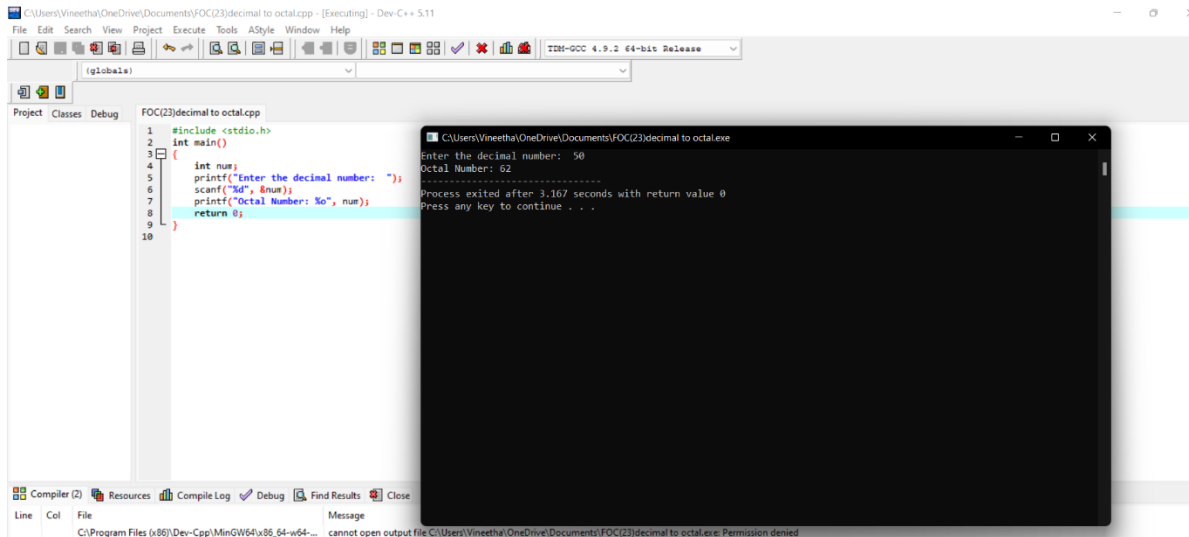
    printf("Enter the decimal number: ");

    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;

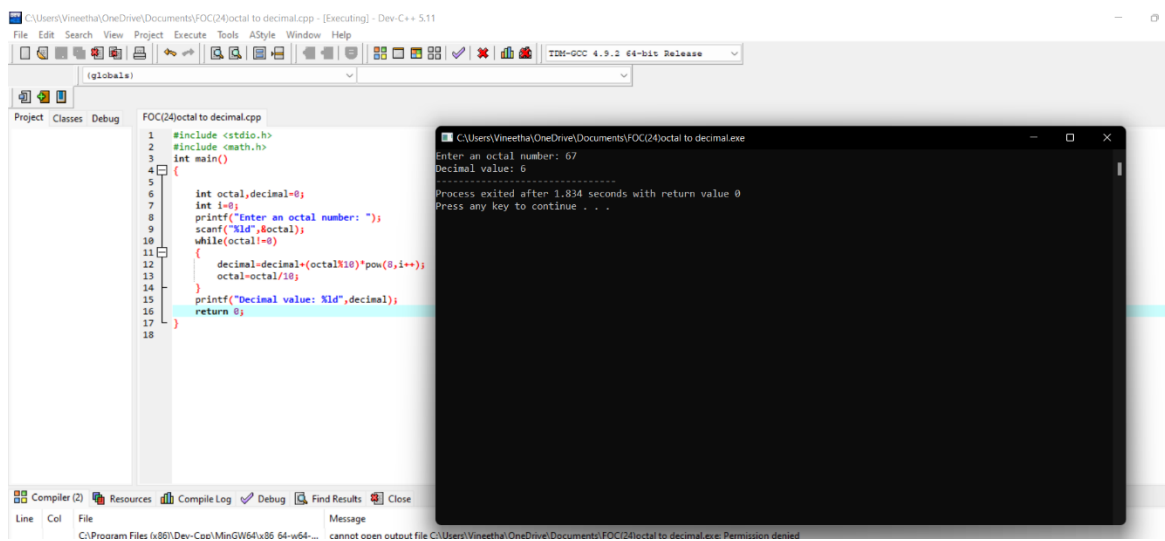
}

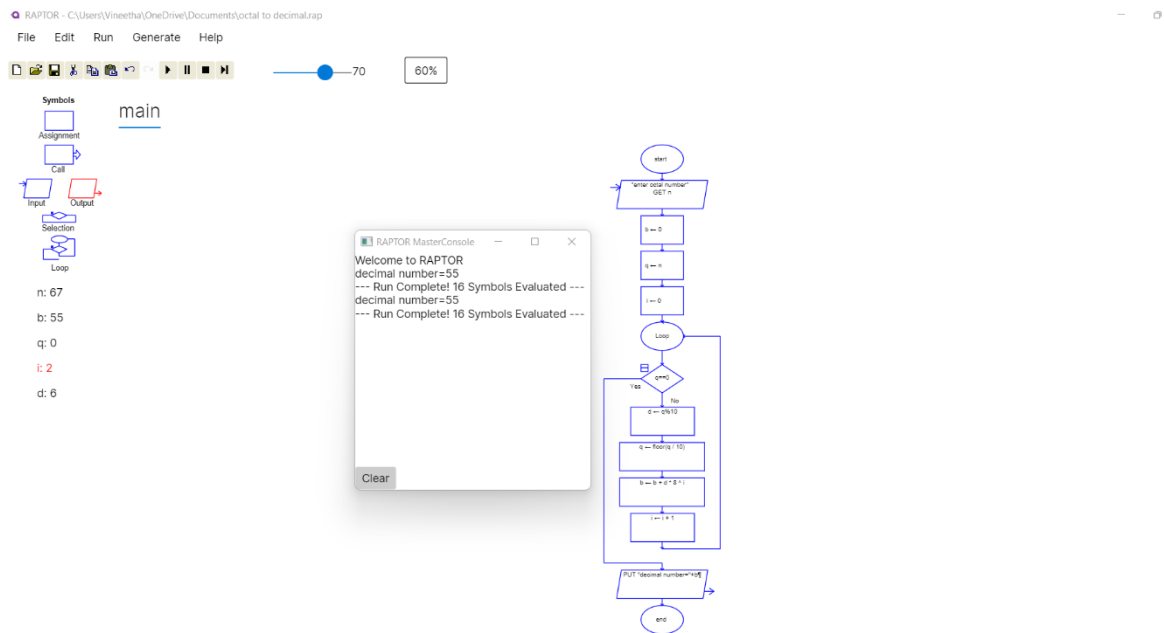
printf("Decimal value: %ld",decimal);

return 0;

}

```





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

**PROGRAM:**

```

#include<stdio.h>

int main()
{
    int n,square;

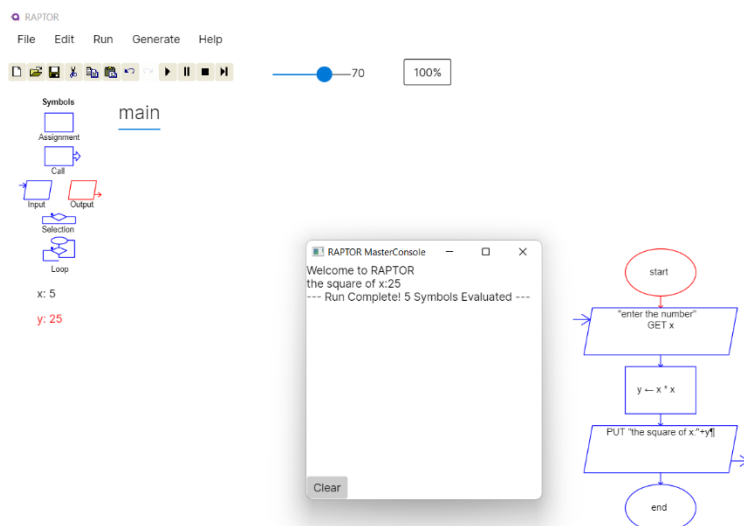
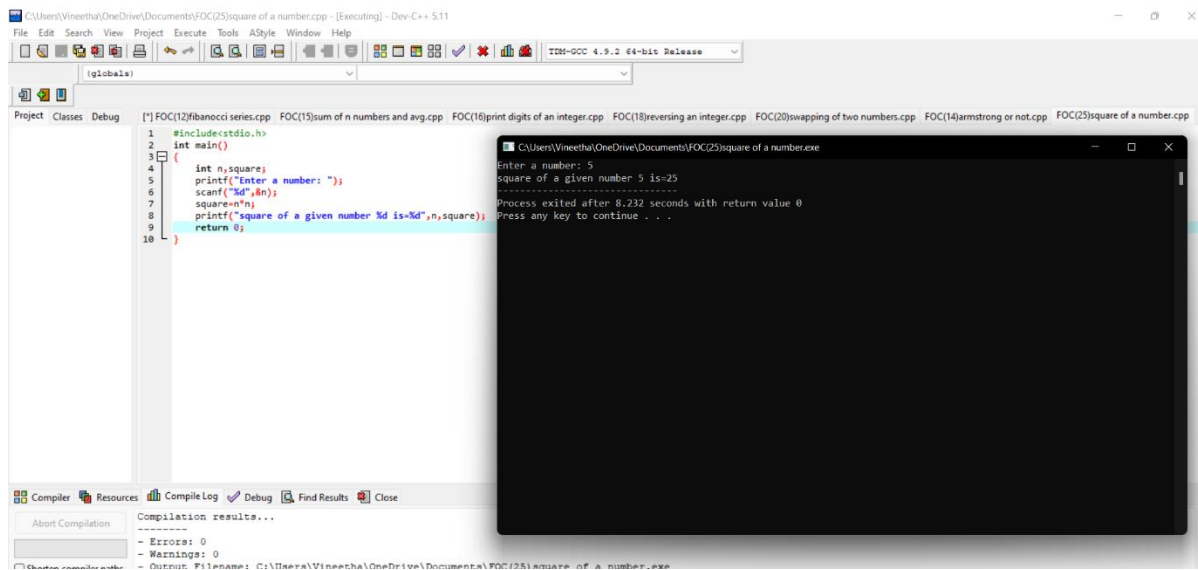
    printf("Enter a number: ");

    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);

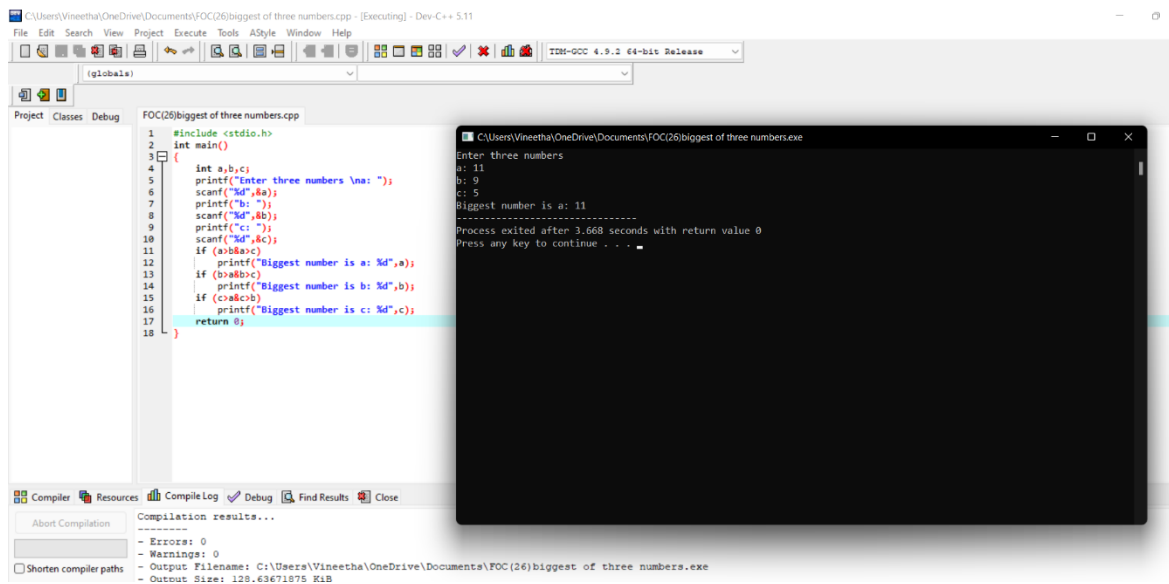
if (c>a&c>b)

    printf("Biggest number is c: %d",c);

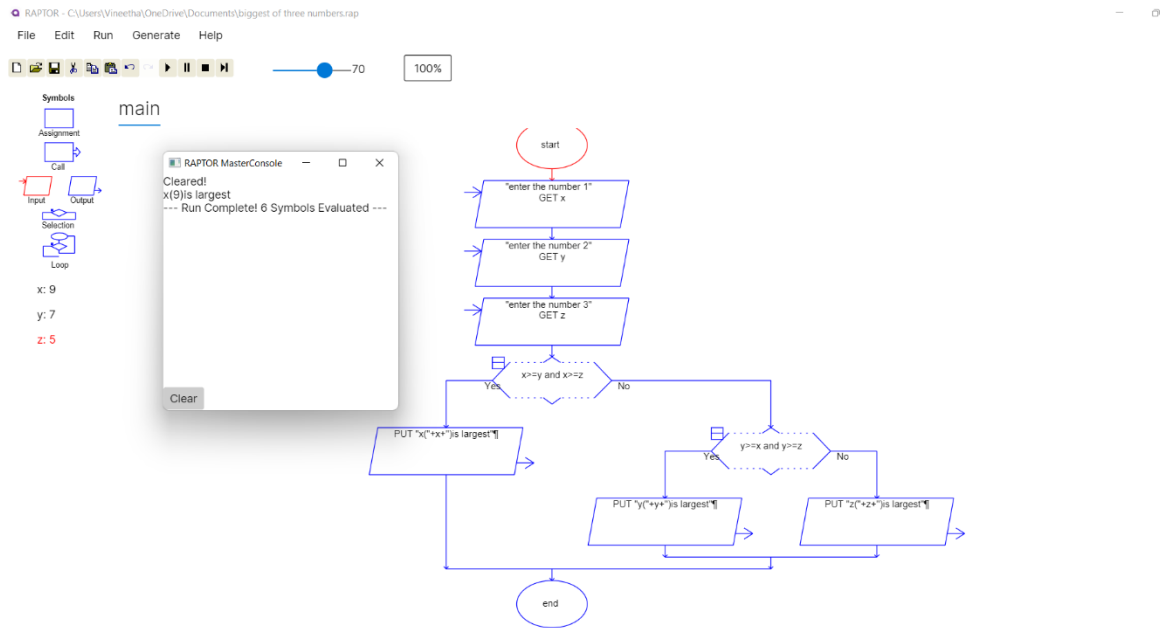
return 0;

}

```







## 7. C Program to find leap year

### PROGRAM:

```

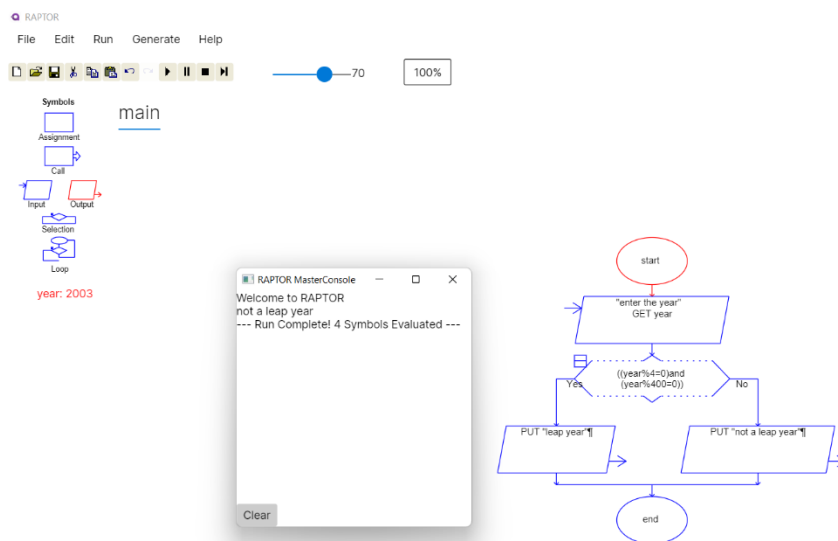
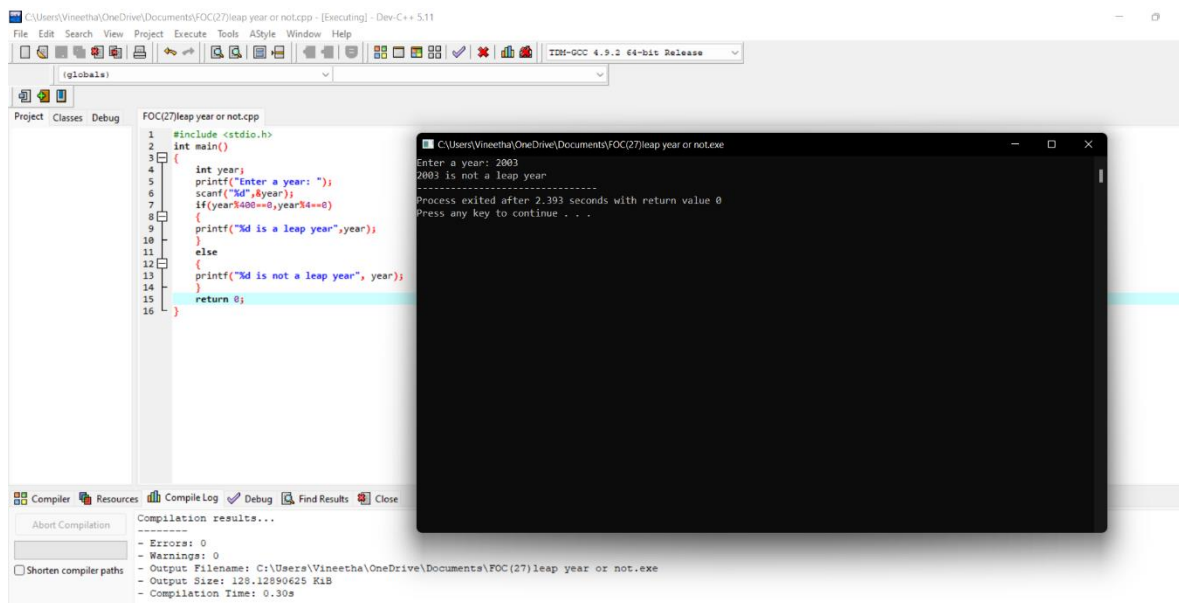
#include <stdio.h>

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>
```

```

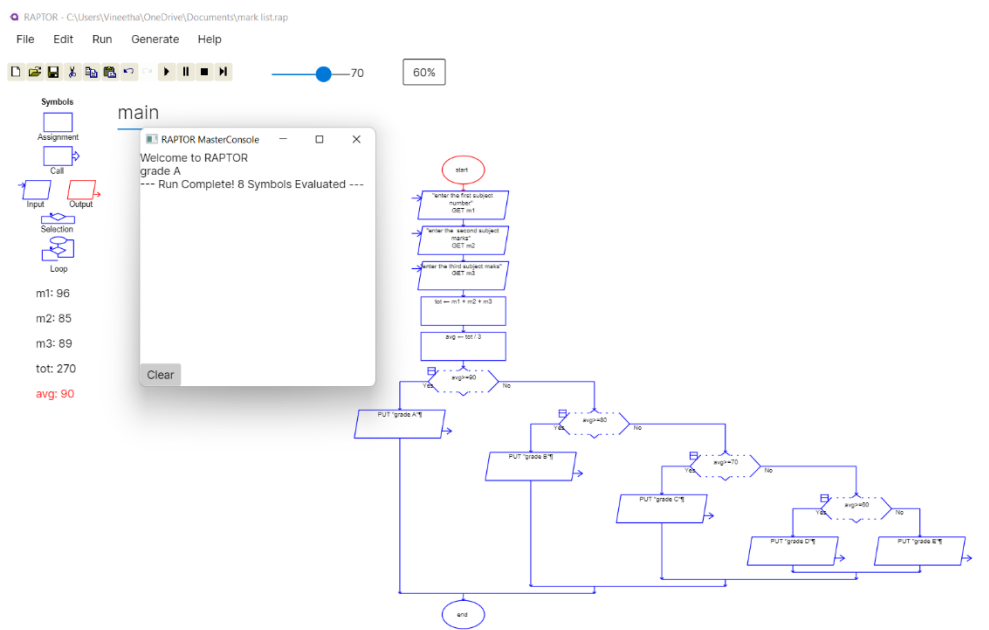
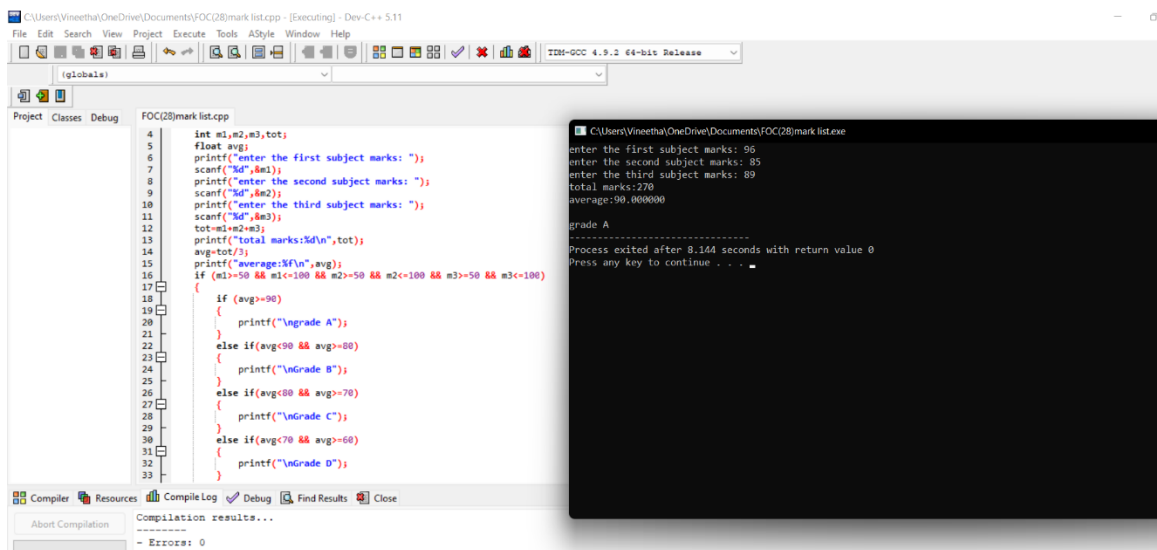
int main()
{
    int m1,m2,m3,tot;
    float avg;
    printf("enter the first subject marks: ");
    scanf("%d",&m1);
    printf("enter the second subject marks: ");
    scanf("%d",&m2);
    printf("enter the third subject marks: ");
    scanf("%d",&m3);
    tot=m1+m2+m3;
    printf("total marks:%d\n",tot);
    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");
}
}

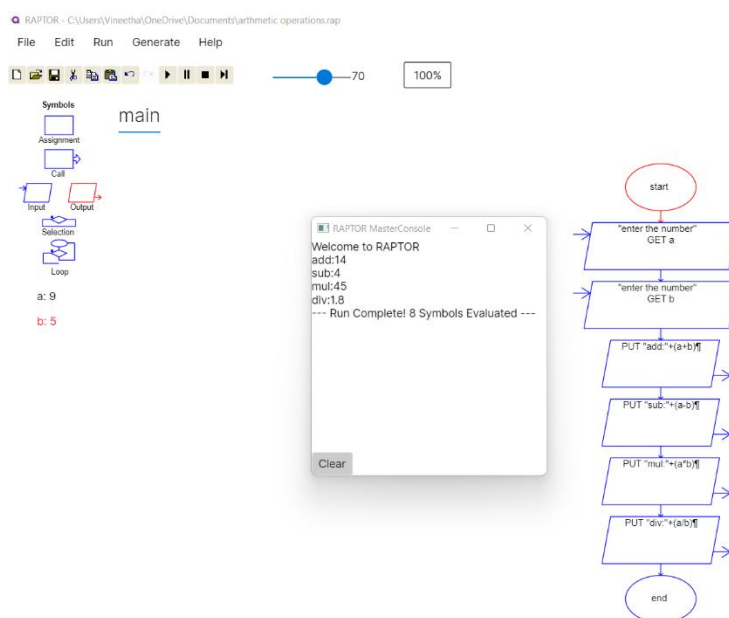
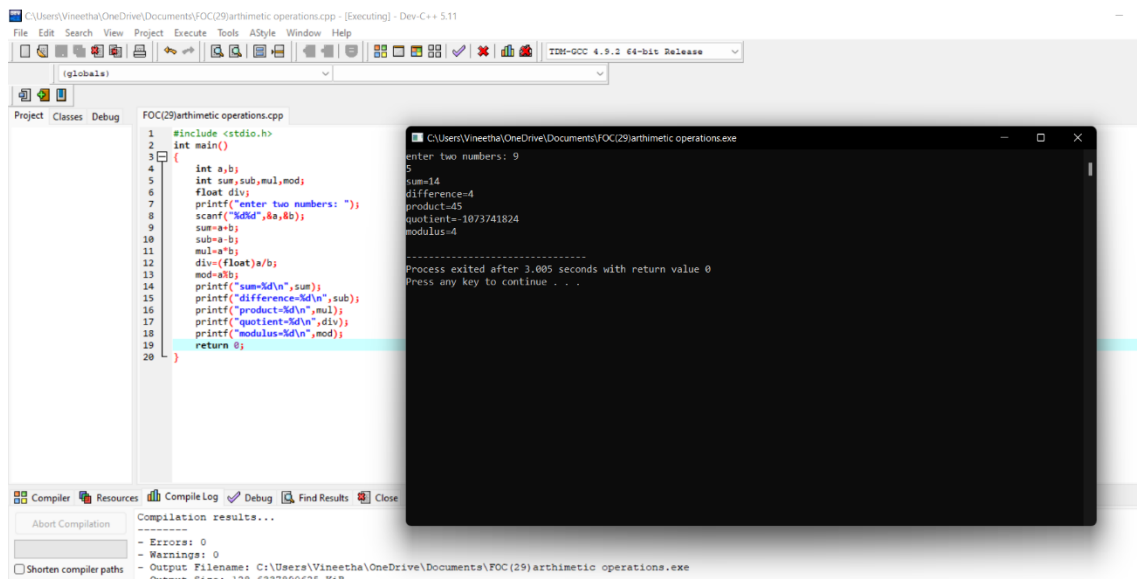
```



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

### PROGRAM:

```
#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

**PROGRAM:**

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

```
int main()
```

```
{
```

```

int i,n;

printf("enter number: ");

scanf("%d",&n);

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

{

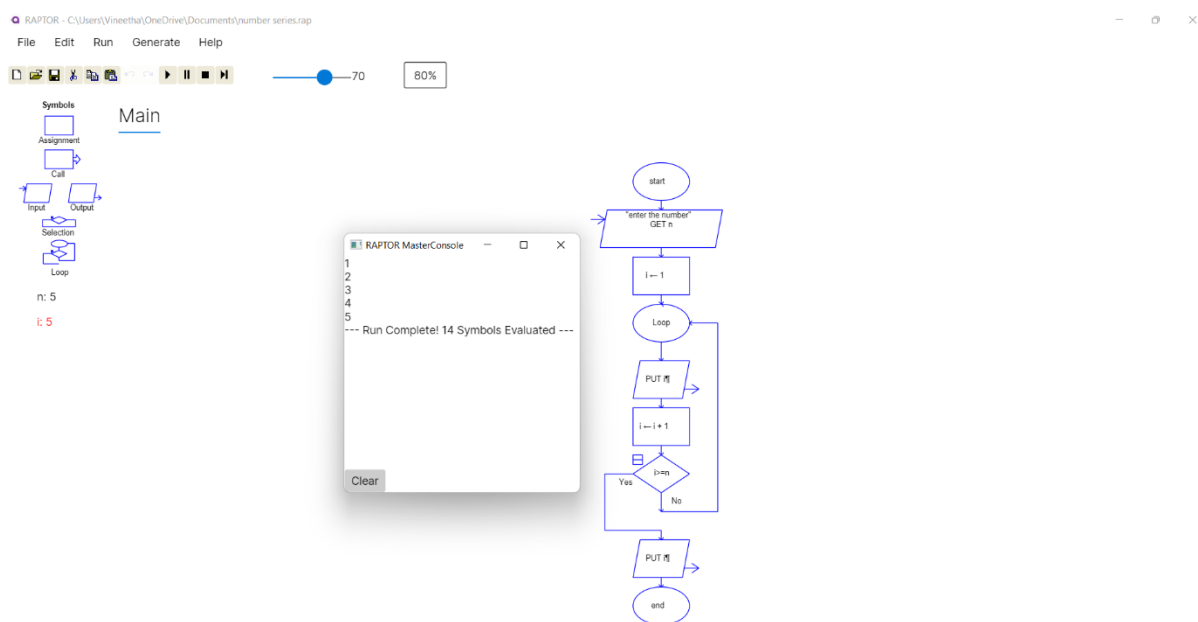
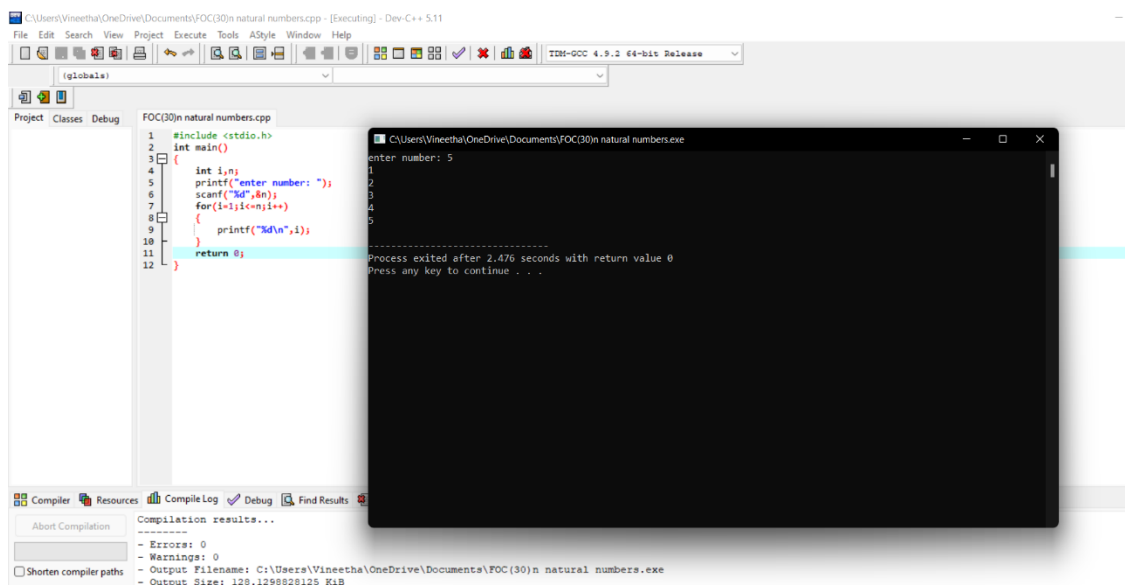
    printf("%d\n",i);

}

return 0;

}

```



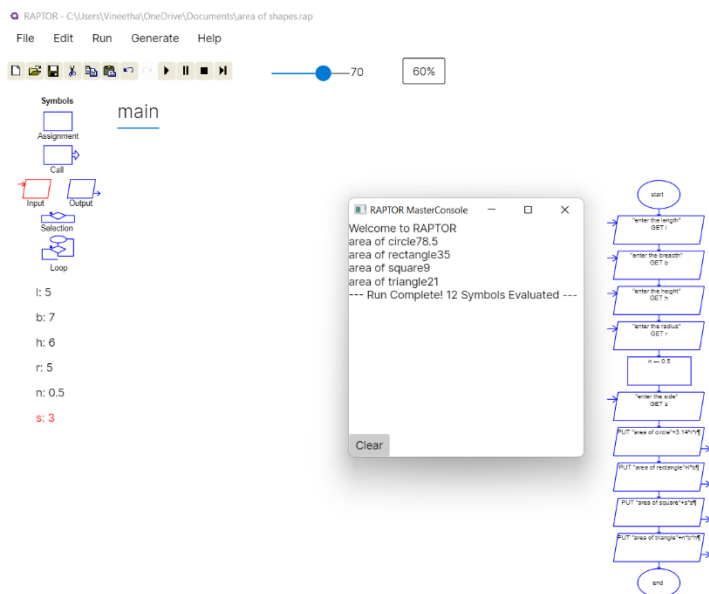
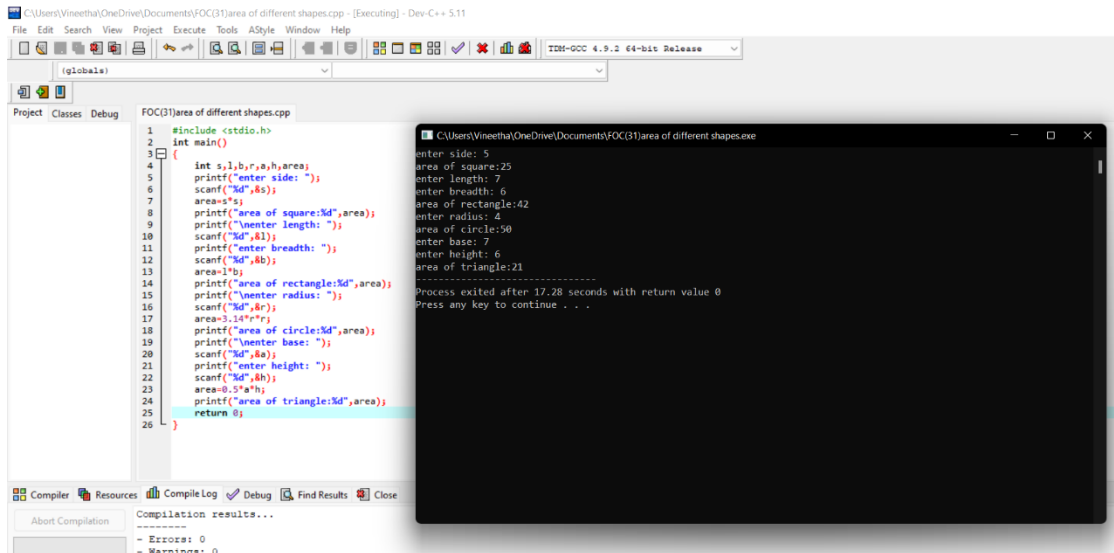
## 11. C Program to find area of different shapes

### 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

### PROGRAM:

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

```
int main()
```

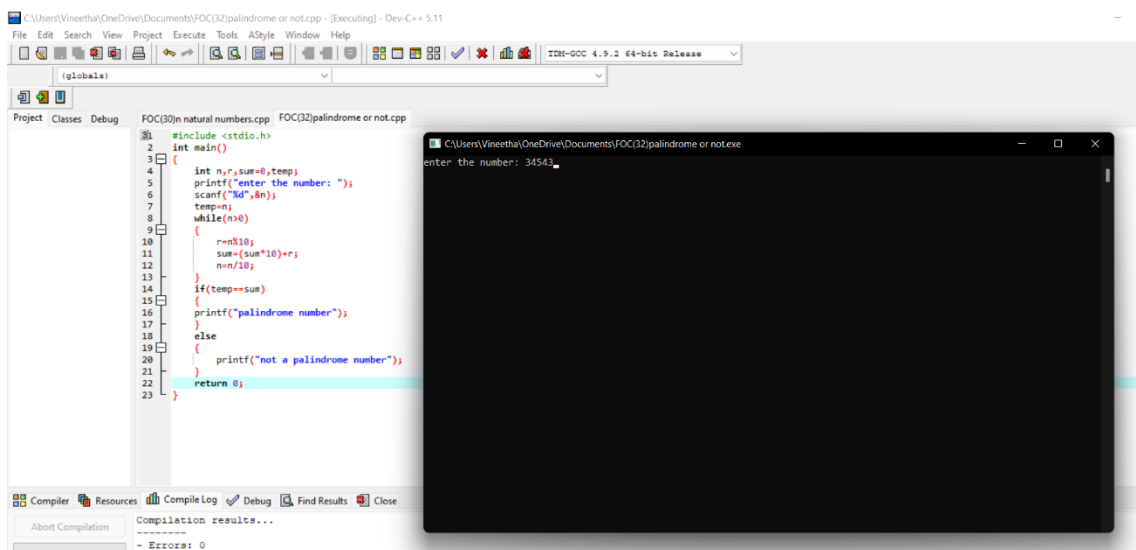
```
{
```

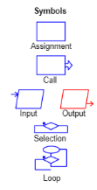
```

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 a palindrome number");
}
return 0;
}

```





main

n: 0  
r: 34543  
temp: 34543  
reminder: 3

RAPTOR MasterConsole

Cleared!  
palindrome34543  
--- Run Complete! 22 Symbols Evaluated ---

Clear

