# CSA5734-FUNDAMENTALS OF COMPUTING FOR DATABASE SYSTEM

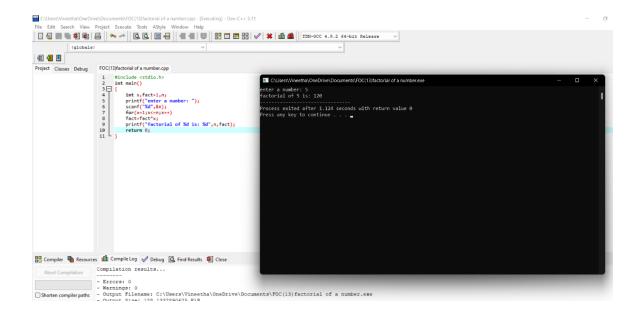
DATE:04-10-2022 NAME:B.VINEETHA

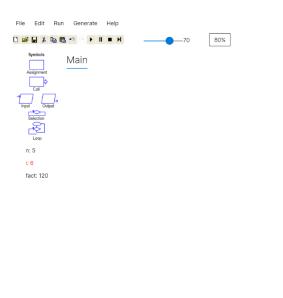
DAY-02 REG.NO:192110487

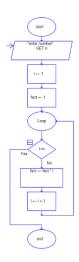
1. Product series (Factorial of a given number)

```
PROGRAM:
```

```
#include <stdio.h>
int main()
{
    int x,fact=1,n;
    printf("enter a number: ");
    scanf("%d",&n);
    for(x=1;x<=n;x++)
    fact=fact*x;
    printf("factorial of %d is: %d",n,fact);
    return 0;
}</pre>
```



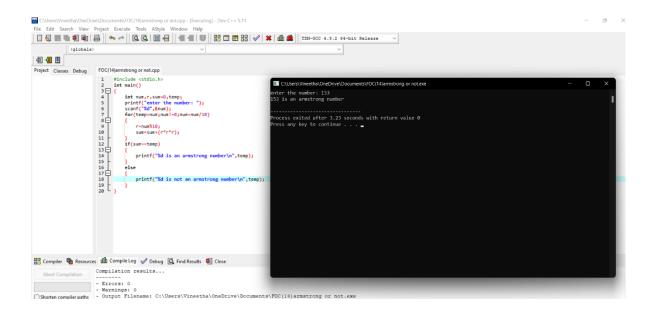


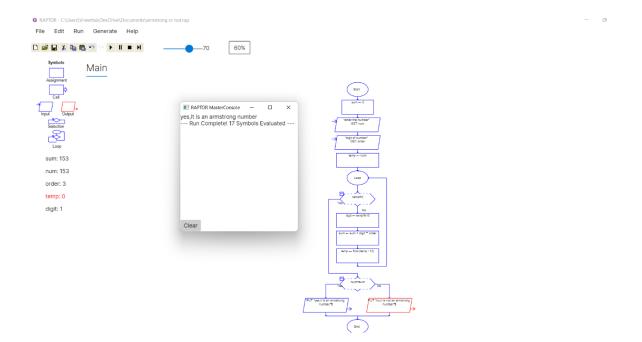


## 2. Given number is Armstrong or not

```
PROGRAM:
```

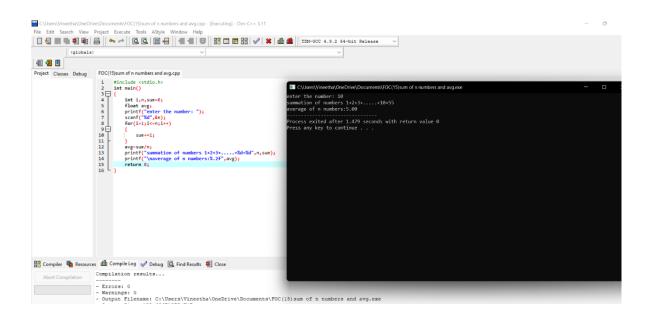
```
#include <stdio.h>
int main()
{
       int num,r,sum=0,temp;
       printf("enter the number: ");
       scanf("%d",&num);
       for(temp=num;num!=0;num=num/10)
       {
              r=num%10;
              sum=sum+(r*r*r);
       }
       if(sum==temp)
       {
              printf("%d is an armstrong number\n",temp);
       }
       else
       {
              printf("%d is not an armstrong number\n",temp);
       }
}
```

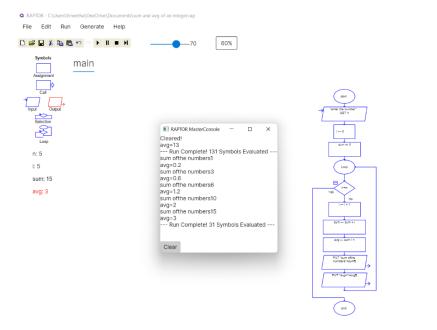




## 3. Summing up any n numbers and finding average

```
#include <stdio.h>
int main()
{
       int i,n,sum=0;
       float avg;
       printf("enter the number: ");
       scanf("%d",&n);
       for(i=1;i<=n;i++)
       {
               sum+=i;
       }
       avg=sum/n;
       printf("summation of numbers 1+2+3+.....+%d=%d",n,sum);
       printf("\naverage of n numbers:%.2f",avg);
       return 0;
}
```



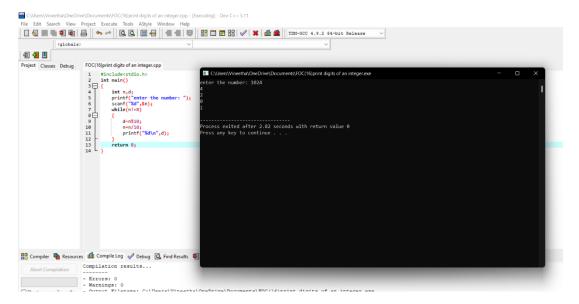


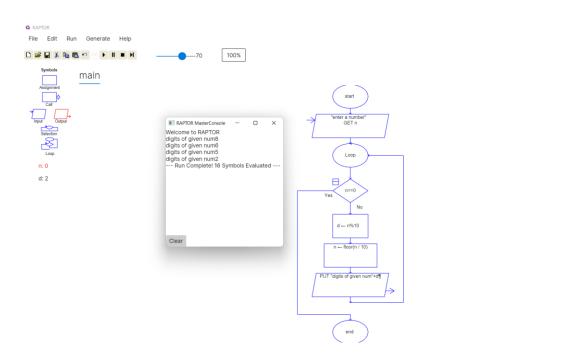
## 4. Printing digits of an integer number

```
#include<stdio.h>
int main()
{
        int n,d;
        printf("enter the number: ");
        scanf("%d",&n);
        while(n!=0)
        {
            d=n%10;
            n=n/10;
            printf("%d\n",d);
        }
}
```

```
}
return 0;
```

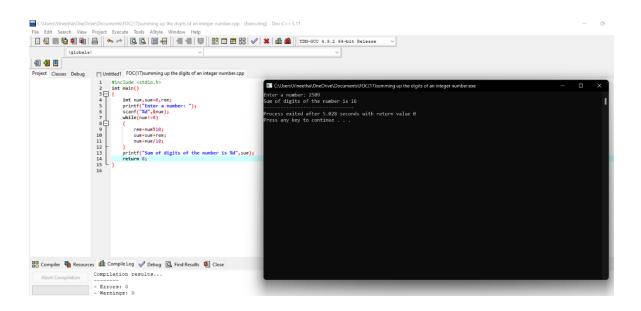
}

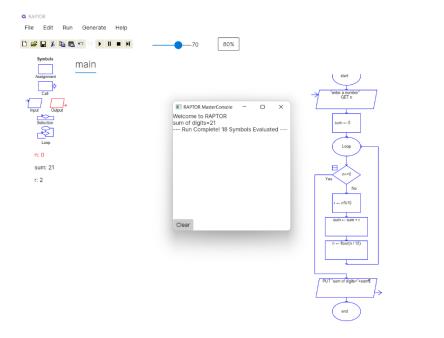




## 5. Summing up the digits of an integer number

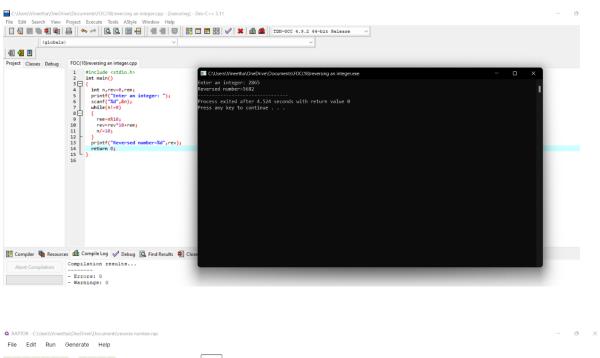
```
#include <stdio.h>
int main()
{
    int num,sum=0,rem;
    printf("Enter a number: ");
    scanf("%d",&num);
    while(num!=0)
    {
       rem=num%10;
       sum=sum+rem;
       num=num/10;
    }
    printf("Sum of digits of the number is %d",sum);
    return 0;
}
```

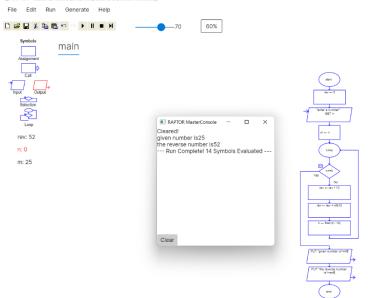




# 6. Reversing the digits of an integer number

```
PROGRAM:
#include <stdio.h>
int main()
{
int n,rev=0,rem;
printf("Enter an integer: ");
scanf("%d",&n);
while(n!=0)
{
  rem=n%10;
  rev=rev*10+rem;
  n/=10;
}
printf("Reversed number=%d",rev);
return 0;
}
```

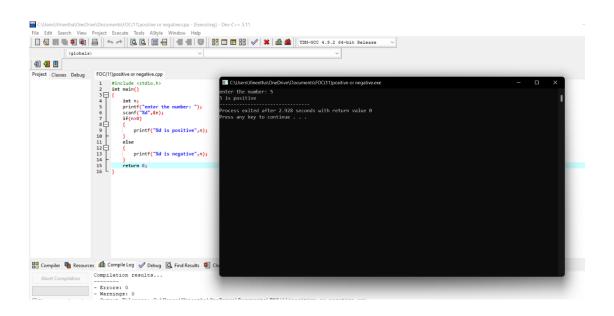


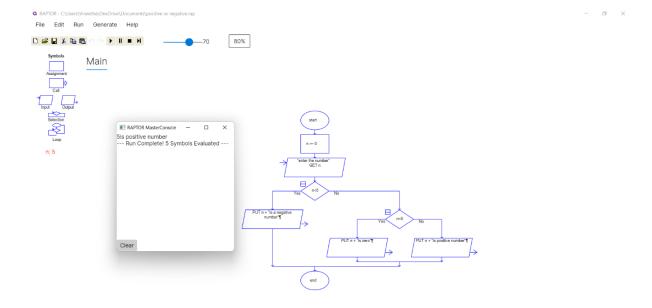


## 7. Finding the given integer is positive or negative

```
PROGRAM:
```

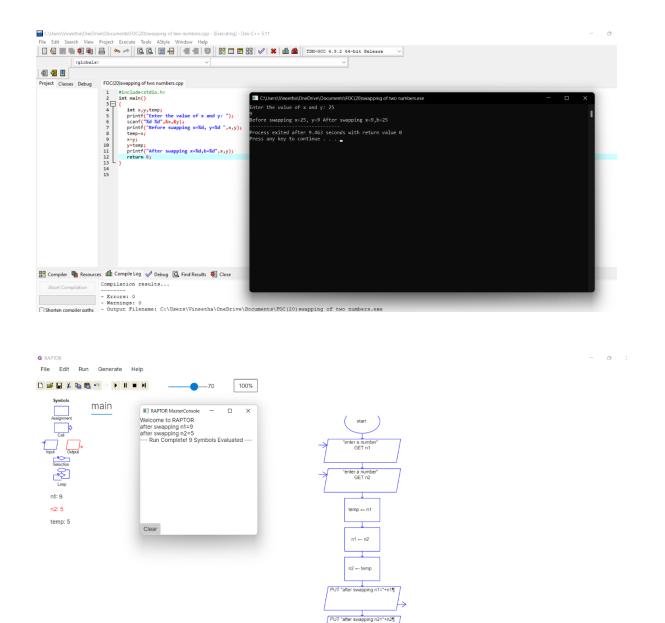
```
#include <stdio.h>
int main()
{
        int n;
       printf("enter the number: ");
        scanf("%d",&n);
       if(n>0)
        {
                printf("%d is positive",n);
        }
        else
        {
                printf("%d is negative",n);
        }
        return 0;
}
```





# 8. Swapping two numbers with a temporary variable

```
#include<stdio.h>
int main()
{
    int x,y,temp;
    printf("Enter the value of x and y: ");
    scanf("%d %d",&x,&y);
    printf("Before swapping x=%d, y=%d ",x,y);
    temp=x;
    x=y;
    y=temp;
    printf("After swapping x=%d,b=%d",x,y);
    return 0;
}
```

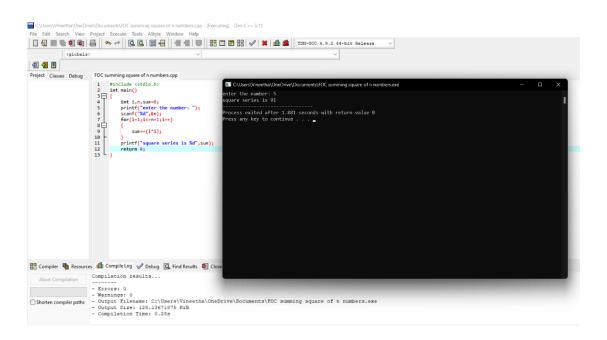


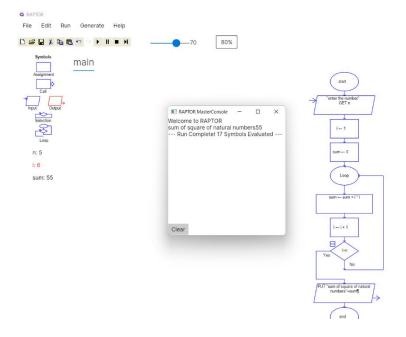
end

## 9. summing of square of n numbers

```
PROGRAM:
```

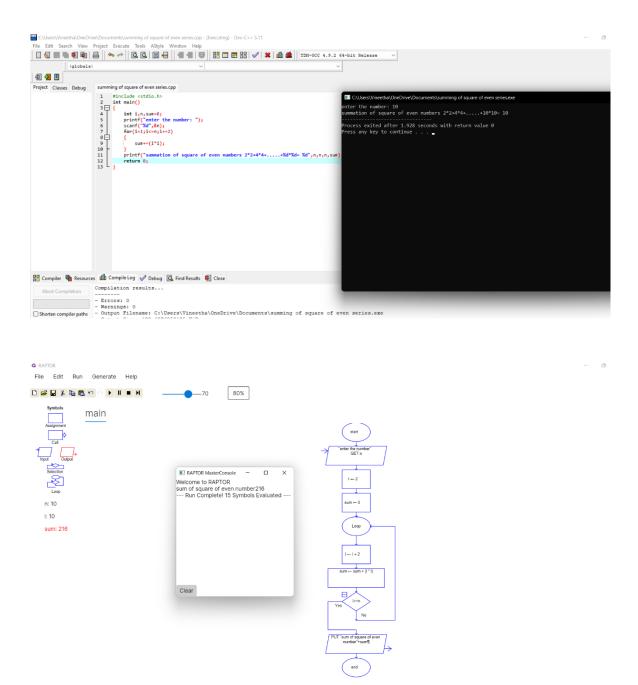
```
#include <stdio.h>
int main()
{
    int i,n,sum=0;
    printf("enter the number: ");
    scanf("%d",&n);
    for(i=1;i<=n+1;i++)
    {
        sum+=(i*i);
    }
    printf("square series is %d",sum);
    return 0;
}</pre>
```





## 10. Summing of square of even series

```
#include <stdio.h>
int main()
{
    int i,n,sum=0;
    printf("enter the number: ");
    scanf("%d",&n);
    for(i=1;i<=n;i+=2)
    {
        sum+=(i*i);
    }
    printf("summation of square of even numbers 2*2+4*4+.....+%d*%d= %d",n,n,n,sum);
    return 0;
}</pre>
```



## 11. Summing of square of odd series

```
#include <stdio.h>
int main()
{
    int i,n,sum=0;
    printf("enter the number: ");
    scanf("%d",&n);
```

```
for(i=1;i<=n;i+=2)
          {
                    sum+=(i*i);
          }
          printf("summation of square of odd numbers 1*1+3*3+.....+%d*%d= %d",n,n,n,sum);
          return 0;
}
(globals)
              nter the number: 10
ummation of square of odd numbers 1*1+3*3+.....+10*10= 10
                   Compiler Resources Compile Log 🗸 Debug 🔼 Find Results 💐 Close
  Abort Compilation Compilation results...
- Errors: 0
- Warnings: 0
File Edit Run Generate Help
                                         80%
           main
                              Welcome to RAPTOR
sum of square of odd numbers165
--- Run Complete! 17 Symbols Evaluated ---
  sum: 165
                              Clear
```