**A**

**LAB REPORT**

**ON**

**C PROGRAMMING**

**Phase I**

**By**

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# Write program to display your name.

## Source Code

#include<stdio.h>

int main()

{

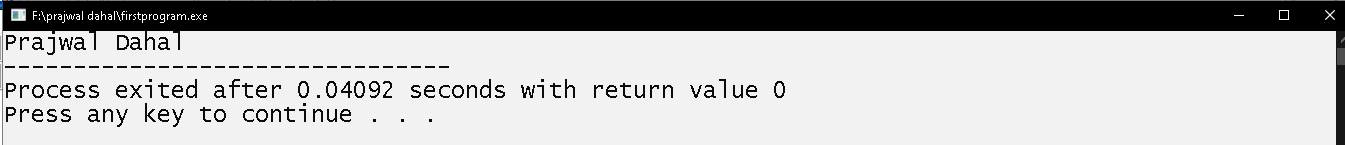
int i;

Printf(“Prajwal Dahal”);

return 0;

}

## Output Window



# Write program to display following pattern using escape sequences:

**Apple    Ball**

**Cat**

**Elephant        Football**

## Source Code

#include<stdio.h>

 int main ()

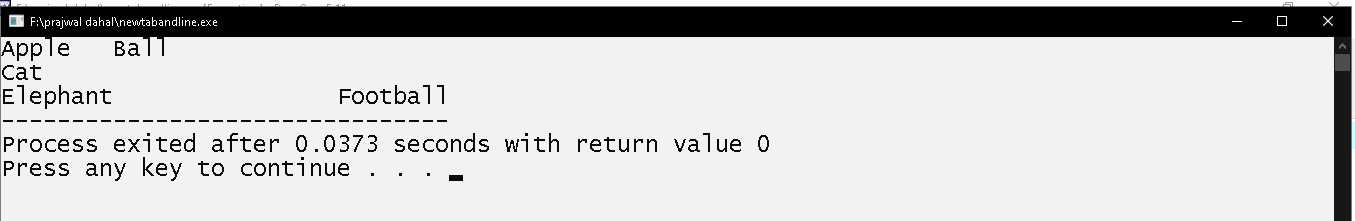
 {

printf("Apple\tBall\nCat\nElephant\t\tFootball");

return 0;

}

## Output Window



# If a=2 ,b=3,c=5 Write a program to evaluate a following expression

**+ +**

## Source Code

#include<stdio.h>

#include<math.h>

int main()

{

float a = 2;

float b = 3;

float c = 5; float rslt1,rslt2,rslt3,finalrslt;

rslt1 = a\*b;

rslt2 = b\*c;

rslt3 = a\*c;

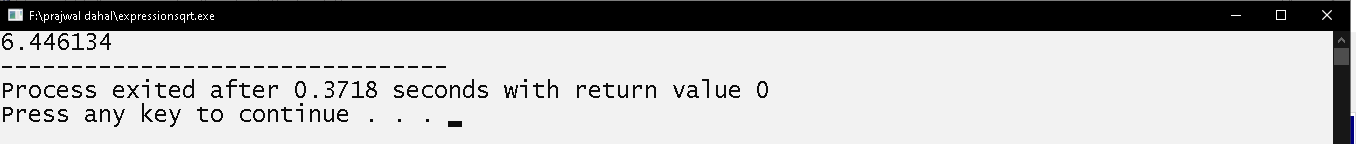
finalrslt=pow(rslt1,0.25)+pow(rslt2,0.2)+sqrt(rslt3);

printf("%f",finalrslt);

return 0;

}

## Output Window



# Write a program to take 1 integer data, 1 float, 1 double, 1 character and 1 string from user and display it.

## Source Code

#include<stdio.h>

int main()

{

int num;float num2; double num3; char ch;char str[50];

printf("enter a number: ");

scanf("%d",&num);

printf("enter a float number: ");

scanf("%f",&num2);

printf("enter a double number: ");

scanf("%lf",&num3);

printf("enter a character: ");

fflush(stdin);

scanf("%c",&ch);

printf("enter a word: ");

scanf("%s",str);

printf("\nintegerdata=%d\n",num);

printf("floatdata=%f\n",num2);

printf("doubledata=%lf\n",num3);

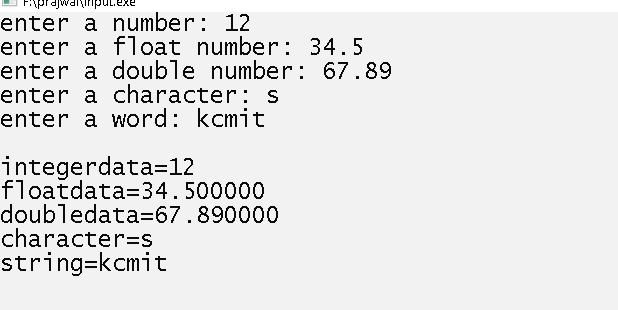
printf("character=%c\n",ch);

printf("string=%s\n",str);

return 0;

}

## Output Window



# Take 6 integers from user and display their average. Write type casting statement explicitly to calculate average.

## Source Code

#include<stdio.h>

int main()

{

int num1,num2,num3,num4,num5,num6;

float avg;

printf("enter 1st number? ");

scanf("%d",&num1);

printf("enter 2nd number? ");

scanf("%d",&num2);

printf("enter 3rd number? ");

scanf("%d",&num3);

printf("enter 4th number? ");

scanf("%d",&num4);

printf("enter 5th number? ");

scanf("%d",&num5);

printf("enter 6th number? ");

scanf("%d",&num6);

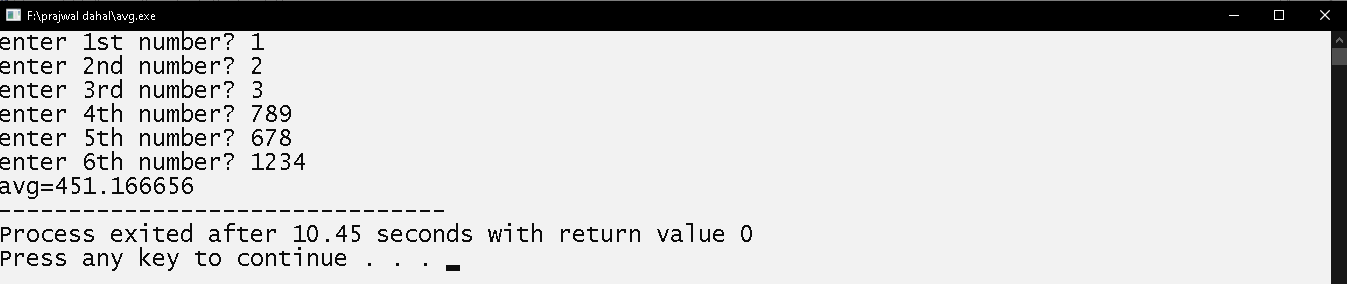
avg=(num1+num2+num3+num4+num5+num6)/(float)6;

printf("avg=%f",avg);

return 0;

}

## Output Window



# Write program to take co-efficient (a, b, c) of quadratic equation from user and display their roots.

**Formula to calculate roots:**

## Source Code

#include<stdio.h>

#include<math.h>

int main()

{

int a,b,c;

double sqr,result1,result2;

printf("enter the first coefficient of quardatic equation? ");

scanf("%d",&a);

printf("enter the second coefficient of quardatic equation? ");

scanf("%d",&b);

printf("enter the third coefficient of quardatic equation? ");

scanf("%d",&c);

sqr=sqrt(b\*b-4\*a\*c);

result1=(-b+sqr)/(2\*a);

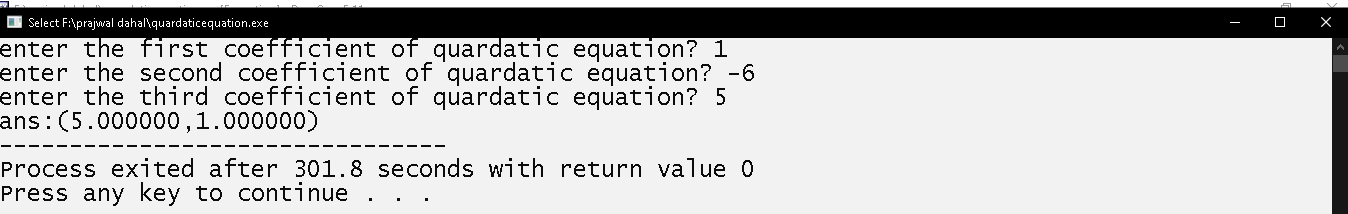
result2=(-b-sqr)/(2\*a);

printf ("ans:(%f, %f)", result1, result2);

return 0;

}

## Output Window



# Write program to take 1 character from user and Check it is 'c' or not.

## Source Code

#include<stdio.h>

int main()

{

char c;

printf("enter a character: ");

scanf("%c",&c);

if(c=='c')

{

printf("entered character is c");

}

if(c!='c')

{

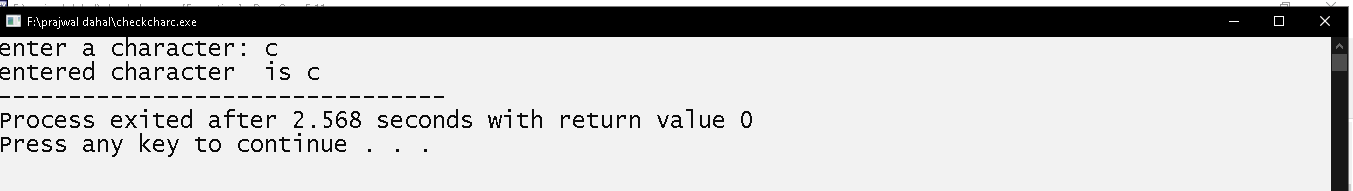
printf("entered character isnot c");

}

return 0;

}

## Output Window



# Write a program to take string data from user and check whether it is “kantipur” or not.

## Source Code

#include<stdio.h>

#include<string.h>

int main()

{

char c[20];

int d;

printf("enter a word: ");

scanf("%s",c);

d=strcmp(c,"kantipur");

if(d==0)

{

printf("entered word is kantipur");

}

else

{

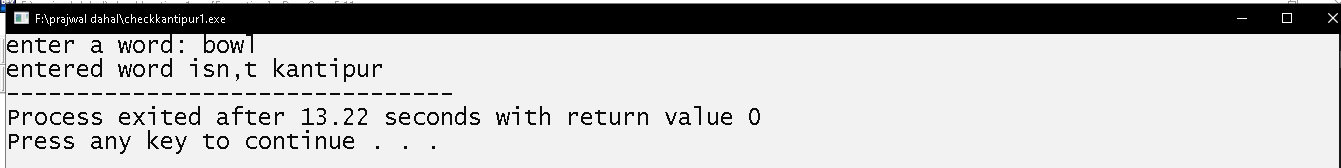
printf("entered word isn,t kantipur");

}

return 0;

}

## Output Windows



# Write program to take 2 integers from user and display their sum if 1st number is greater than 2nd number, display their product if 2nd number is greater than 1st number otherwise display their average.

## Source Code

#include<stdio.h>

int main()

{

    int a,b;

    printf("enter a number: ");

    scanf("%d",&a);

    printf("enter a second number: ");

    scanf("%d",&b);

    if(a>b)

    {

        printf("sum=%d",a+b);

    }

    else if (b>a)

    {

        printf("product=%d",a\*b);

    }

    else

    {

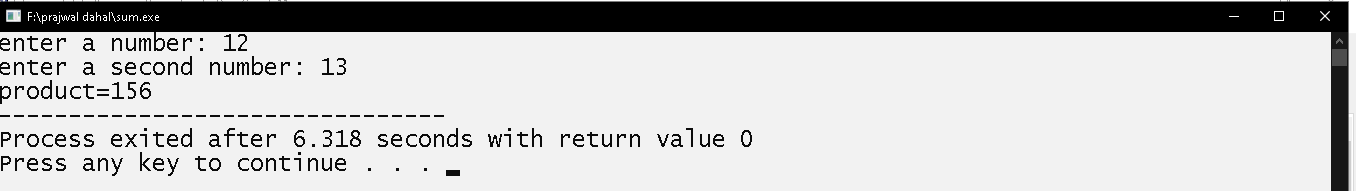
        printf("average=%f",(a+b)/(float)2);

    }

    return 0;

}

## Output Window



# Write program to take 3 integers from user and display greatest integer.

## Source Code

#include<stdio.h>

int main()

{

int a,b,c;

printf("enter a number: ");

scanf("%d",&a);

printf("enter a second number: ");

scanf("%d",&b);

printf("enter third number: ");

scanf("%d",&c);

if(a>=b&&a>c)

{

printf("%d is greatest number",a);

}

else if(b>a&&b>=c)

{

printf("%d is greatest number",b);

}

else if(c>=a&&c>b)

{

printf("%d is greatest number",c);

}

else

{

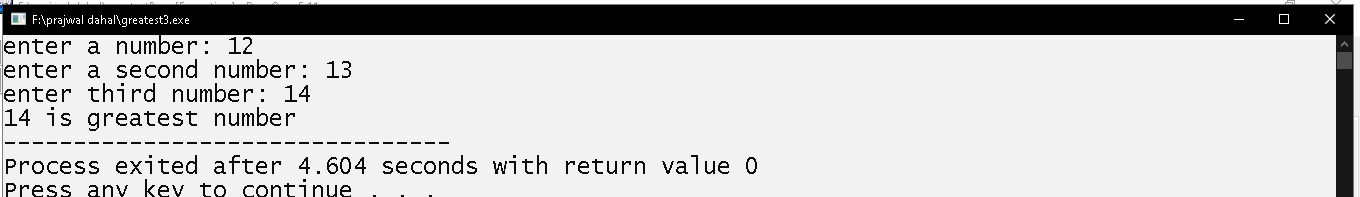
printf("all are equal");

}

return 0;

}

## Output Window



# Write a program to take 3 character from user and find the smallest character

## Source Code

#include<stdio.h>

int main()

{

char a,b,c;

printf("enter a character: ");

scanf("%c",&a);

fflush(stdin);

printf("enter a second character: ");

scanf("%c",&b);

fflush(stdin);

printf("enter third character: ");

scanf("%c",&c);

if(a<=b&&a<c)

{

printf("%c is smallest character",a);

}

else if(b<a&&b<=c)

{

printf("%c is smallest character",b);

}

else if(c<=a&&c<b)

{

printf("%c is smallest character",c);

}

else

{

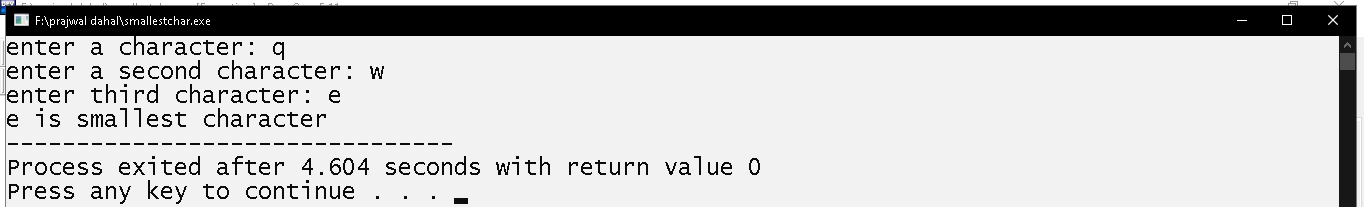
printf("all are equal");

}

return 0;

}

## Output Windows



# Write a program to take 3 character from user and display the middle character.

## Source Code

#include<stdio.h>

int main()

{

char a,b,c;

printf("enter a character: ");

scanf("%c",&a);

fflush(stdin);

printf("enter a second character: ");

scanf("%c",&b);

fflush(stdin);

printf("enter third character: ");

scanf("%c",&c);

if(a>b&&a<c||a<b&&a>c)

{

printf("%c is middle character",a);

}

else if(b>a&&b<c||b<a&&b>c)

{

printf("%c is middle character",b);

}

else if(c<a&&c>b||c>a&&c<b)

{

printf("%c is middle character",c);

}

else

{

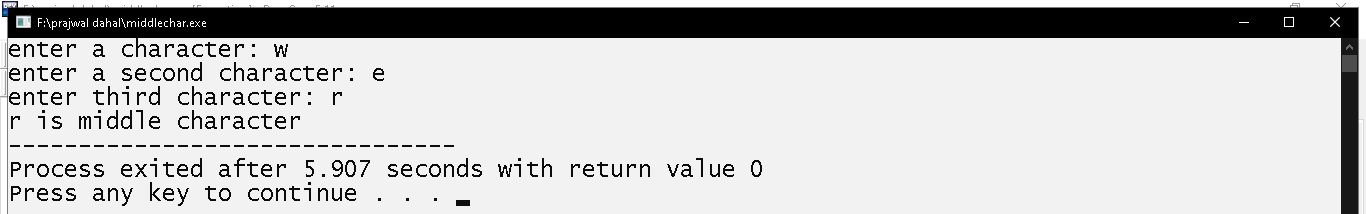
printf("two of them or all are equal");

}

return 0;

}

## Output Windows



# Write a program to take 3 string and display greatest string.

## Source Code

#include<stdio.h>

#include<string.h>

int main()

{

char a[20],b[20],c[20];

int rslt,rslt1,rslt2;

printf("enter a word: ");

scanf("%s",a);

fflush(stdin);

printf("enter a second word: ");

scanf("%s",b);

fflush(stdin);

printf("enter third word: ");

scanf("%s",c);

rslt=strcmp(a,b);

rslt1=strcmp(a,c);

rslt2=strcmp(b,c);

if(rslt>=0&&rslt1>0)

{

printf("%s is greatest word",a);

}

else if(rslt<0&&rslt2>=0)

{

printf("%s is greatest word",b);

}

else if(rslt1<=0&&rslt2<0)

{

printf("%s is greatest word",c);

}

else

{

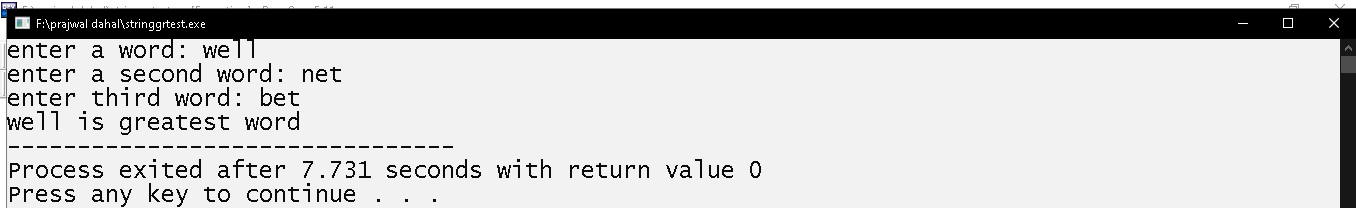
printf("all are equal");

}

return 0;

}

## Output Windows



# Write program to display even numbers from 2 to 50.

## Source Code

#include<stdio.h>

int main()

{

int a;

printf("\t");

for(a=2;a<=50;a+=2)

{

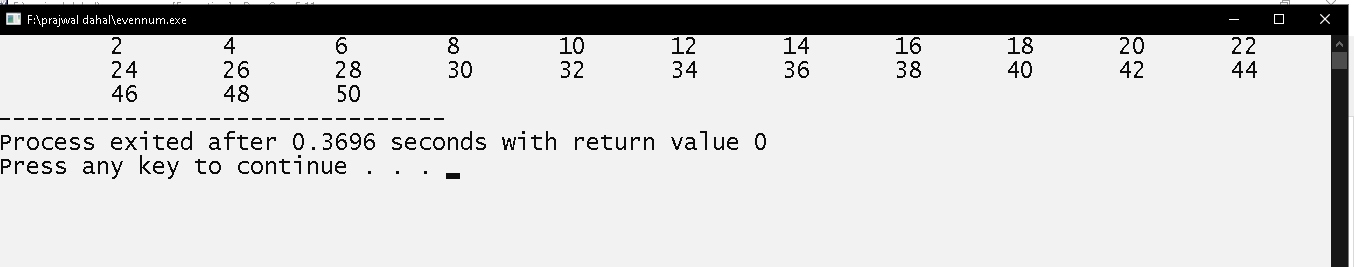
printf("%d\t",a);

}

return 0;

}

## Output Window



# Write program to display odd numbers from 1 to 200.

## Source Code

#include<stdio.h>

int main()

{

int a;

printf("\t");

for(a=1;a<=200;a+=2)

{

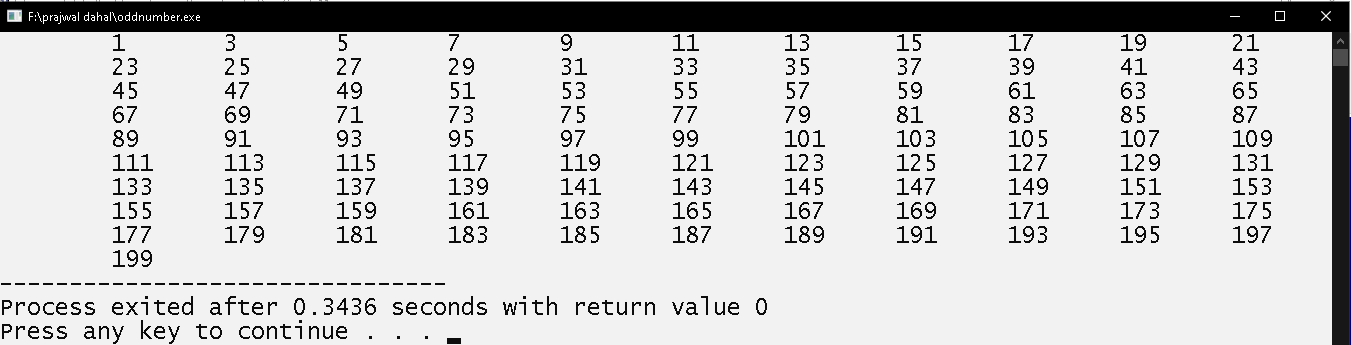
printf("%d\t",a);

}

return 0;

}

## Output Windows



# Write program to display multiples of 7 from 20 to 300.

## Source Code

#include<stdio.h>

int main()

{

int i;

printf("\t");

for(i=21;i<=300;i+=7)

{

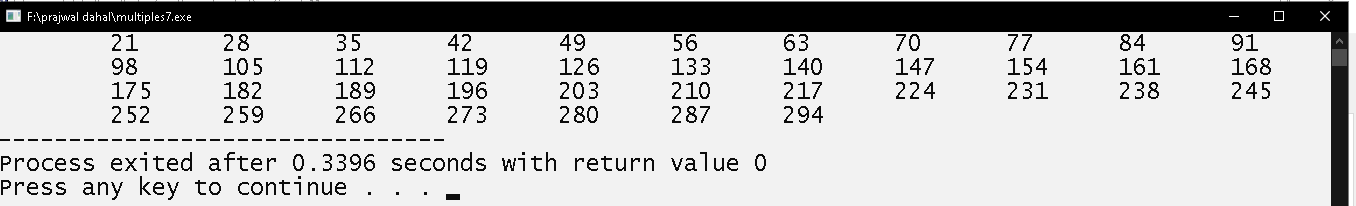
printf("%d\t",i);

}

return 0;

}

## Output Window



# Write program to display of six ASCII character set with their respective values in Octal, Decimal and Hexadecimal Number System.

## Source Code

#include<stdio.h>

int main()

{

int i;

for(i=65;i<=70;i++)

{

printf("character=%c\n",i);

printf("asciivalue=%d\thexadecimal=%x\toctal=%o\n\n",i,i,i);

}

return 0;

}

## Output Windows



# Write program to calculate and display the sum of first 20 natural numbers

## Source Code

#include<stdio.h>

int main()

{

int i,sum=0;

for(i=1;i<=20;i++)

{

sum+=i;

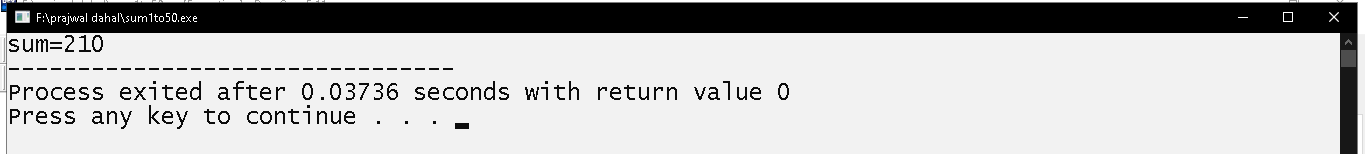
}

printf("sum=%d",sum);

return 0;

}

## Output Window



# Write program to take lower bound and upper bound integer value from user and display integer numbers between them.

## Source Code

#include<stdio.h>

int main()

{

    int a,b,i;

    printf("enter a integer: ");

    scanf("%d",&a);

    printf("enter second integer(>first integer): ");

    scanf("%d",&b);

    for(i=a+1;i<b;i++)

    {

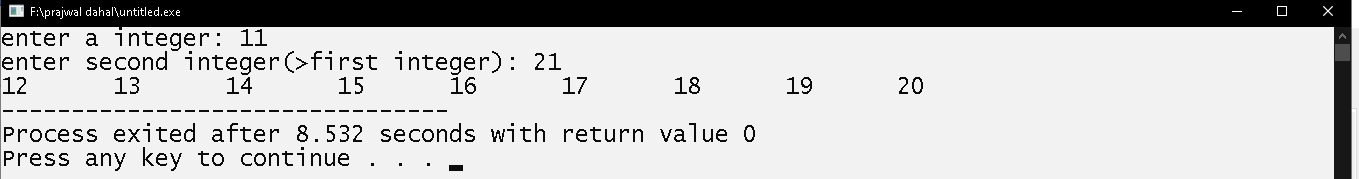
        printf("%d\t",i);

    }

    return 0;

}

## Output Window



# Write a program to take 2 input from user and display the sum of odd number between them

## Source Code

#include<stdio.h>

int main()

{

int a,b,i,sum=0;

printf("enter a integer: ");

scanf("%d",&a);

printf("enter second integer: ");

scanf("%d",&b);

if(b>a)

{

for(i=a+1;i<b;i++)

{

if(i%2==1)

{

sum+=i;

}

}

}

else

{

for(i=b+1;i<a;i++)

{

if(i%2==1)

{

sum+=i;

}

}

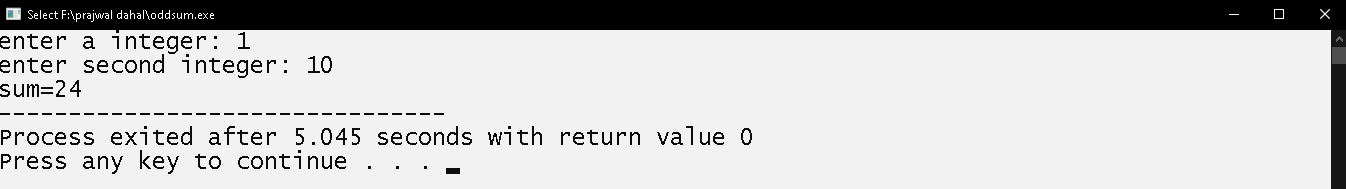
}

printf("sum=%d",sum);

return 0;

}

## Output Window



# Write a program to display following series:

**9,28,14,7,22 until the number is 1**

## Source Code

#include<stdio.h>

int main()

{

int i,a=9;

for(;a!=1;)

{

if(a%2==0)

{

a/=2;

}

else

{

a=a\*3+1;

}

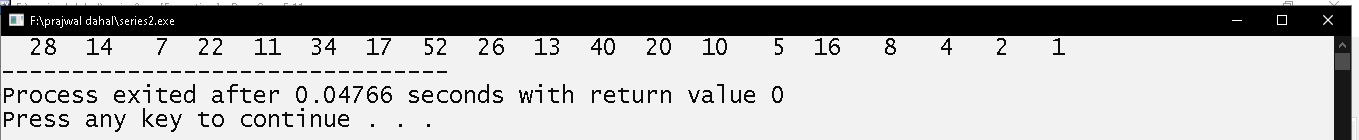
printf("%4d",a);

}

return 0;

}

## Output Window



# Write program to take 6 integers from user and display them.

## Source Code

#include<stdio.h>

int main()

{

int a[6],i;

printf("enter 6 numbers below:\n\n")

for (i=0;i<6;i++)

{

printf("enter number%d: ",i+1);

scanf("%d",&a[i]);

}

for (i=0;i<6;i++)

{

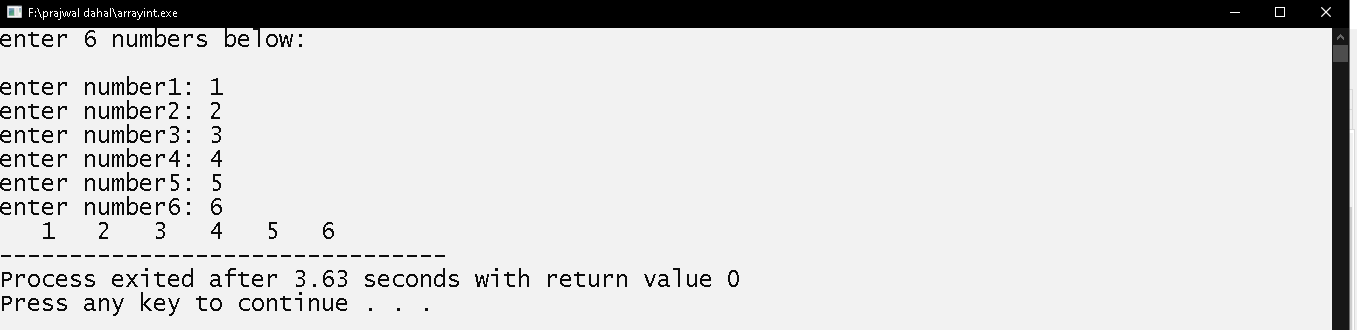
printf("%d\n",a[i]);

}

return 0;

}

## Output Windows



# Write a program to take 6 string from user and display them.

## Source Code

#include<stdio.h>

int main()

{

char str[6][20],i;

printf("enter 6 words below:\n");

for (i=0;i<6;i++)

{

printf("enter word%d: ",i+1);

scanf("%s",&str[i]);

fflush(stdin);

}

Printf(“\n”);

for (i=0;i<6;i++)

{

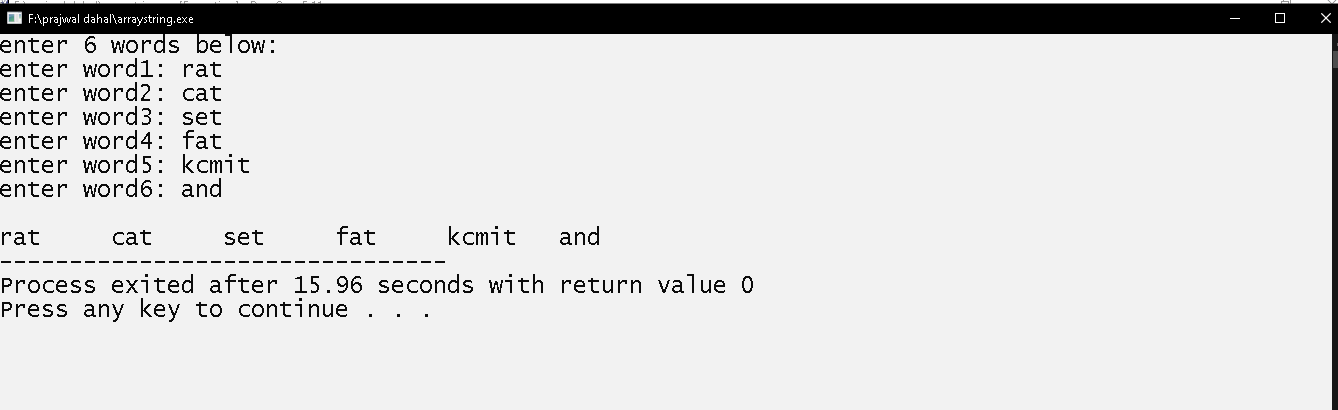
printf("\n%s\t",str[i]);

}

return 0;

}

## Output Window



# Write program to take 15 integers from user and display even numbers only.

## Source Code

#include<stdio.h>

int main()

{

int a[15],i;

printf("enter 15 numbers below:\n\n");

for (i=0;i<15;i++)

{

printf("enter number%d: ",i+1);

scanf("%d",&a[i]);

}

printf("\nentered even numbers are:\n\n");

for (i=0;i<15;i++)

{

if(a[i]%2==0)

{

printf("%d\t",a[i]);

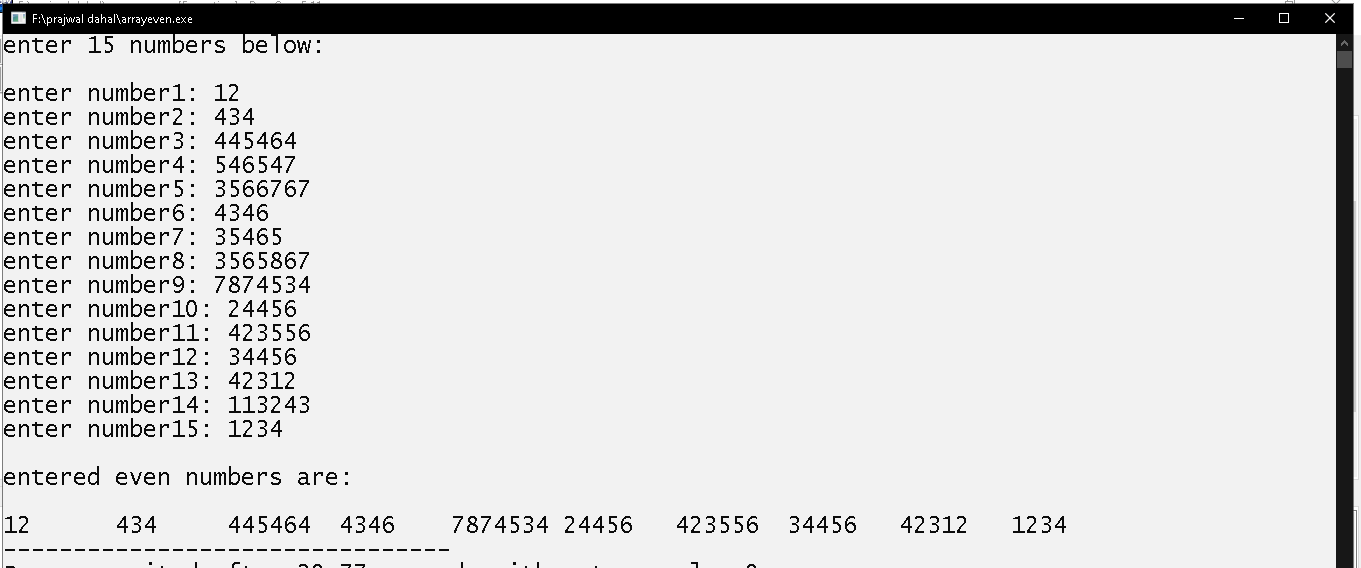
}

}

return 0;

}

## Output Window



# Write a program to take 15 integers from user and display the average of odd number only.

## Source Code

#include<stdio.h>

int main()

{

int a[15],i;int sum=0;int count=0;

printf("enter 15 numbers below:\n\n");

for (i=0;i<15;i++)

{

printf("enter number%d: ",i+1);

scanf("%d",&a[i]);

}

for (i=0;i<15;i++)

{

if(a[i]%2==1)

{

sum+=a[i];

count++;

}

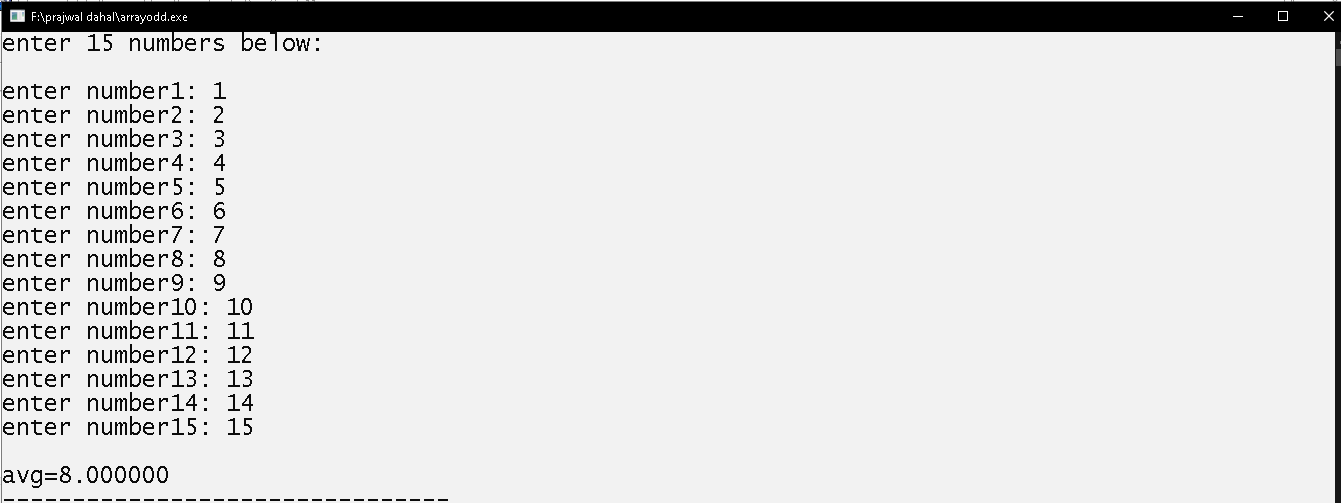
}

printf("\navg=%f",sum/(float)count);

return 0;

}

## Output Window



# Write a program to take 15 integers from user and display average of multiples of 7.

## Source Code

#include<stdio.h>

int main()

{

    int a[15],i;int sum=0,count=0;

    printf("enter 15 numbers below:\n\n");

    for (i=0;i<15;i++)

    {

        printf("enter number%d: ",i+1);

        scanf("%d",&a[i]);

    }

        for (i=0;i<15;i++)

    {

        if(a[i]%7==0)

        {

        sum+=a[i];

         count++;

        }

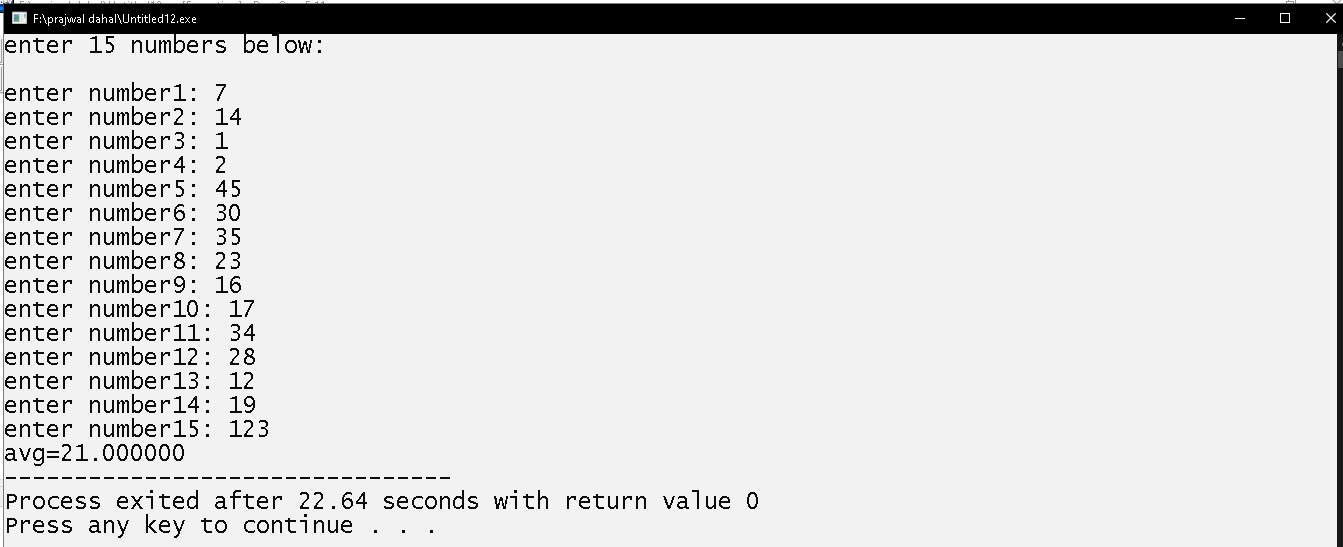
    }

    printf("avg=%f",sum/(float)count);

    return 0;

}

## Output Window



# Write a program to take 15 integer from the user and display it in reverse order.

## Source Code

#include<stdio.h>

int main()

{

int a[15],i;

printf("enter 15 numbers below:\n\n");

for (i=0;i<15;i++)

{

printf("enter number%d: ",i+1);

scanf("%d",&a[i]);

}

printf("\t");

for (i=14;i>=0;i--)

{

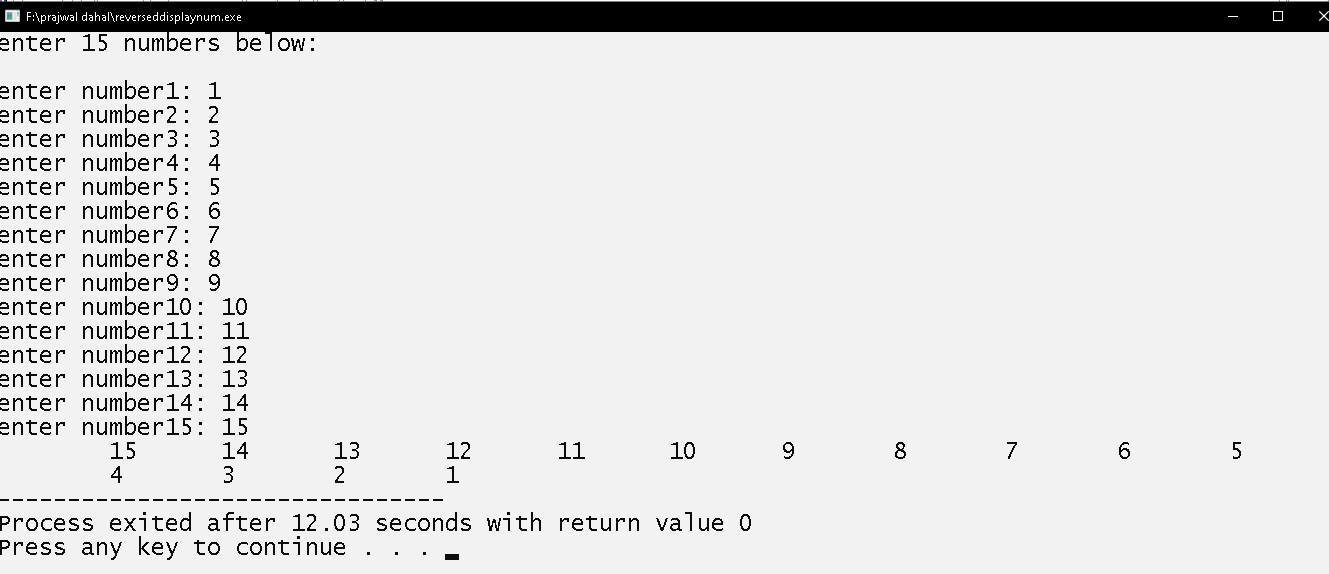
printf("%d\t",a[i]);

}

return 0;

}

## Output Window



# Write a program to take 15 integer from user and search 75 in it .

## Source Code

#include<stdio.h>

int main()

{

int a[15],i;int count=0;

printf("enter 15 numbers below:\n\n");

for (i=0;i<15;i++)

{

printf("enter number%d: ",i+1);

scanf("%d",&a[i]);

}

for (i=0;i<15;i++)

{

if(a[i]==75)

{

printf("\n\nfound in %d position\n",i+1);

count++;

}

}

if(count==0)

{

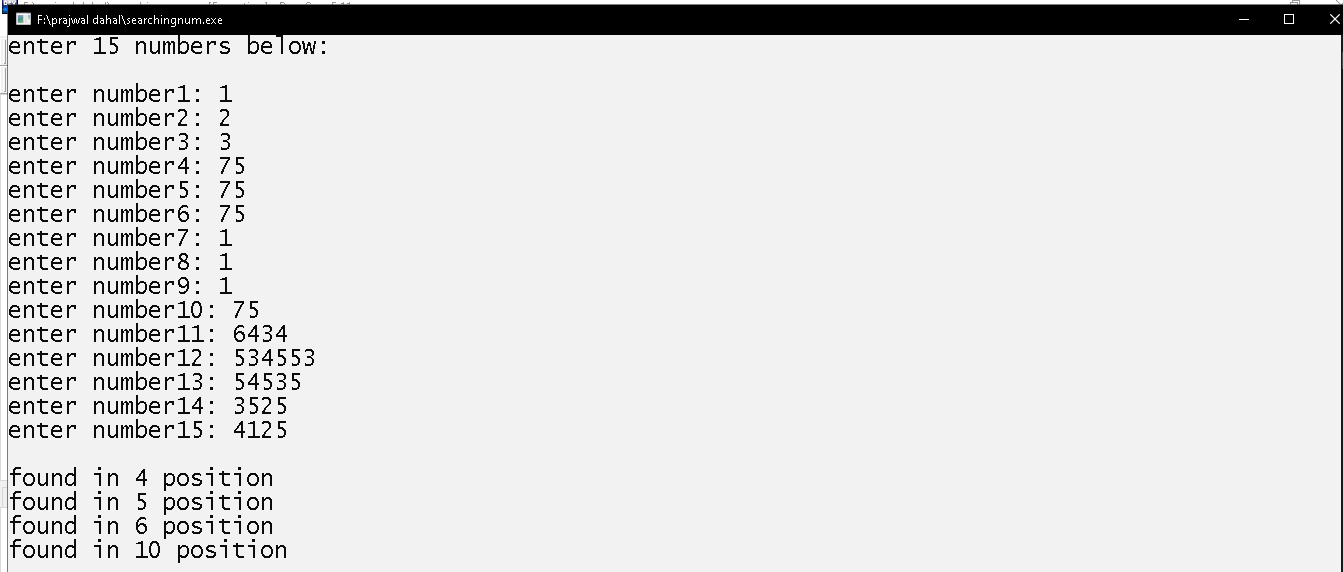
printf("\n\n75 isnot found");

}

return 0;

}

## Output Window



# Write a program to take 15 integers from user and display greatest number.

## Source Code

#include<stdio.h>

int main()

{

int a[15],i;int g;

printf("enter 15 numbers below:\n\n");

for (i=0;i<15;i++)

{

printf("enter number%d: ",i+1);

scanf("%d",&a[i]);

}

g=a[0];

for (i=0;i<15;i++)

{

if(a[i]>g)

{

g=a[i];

}

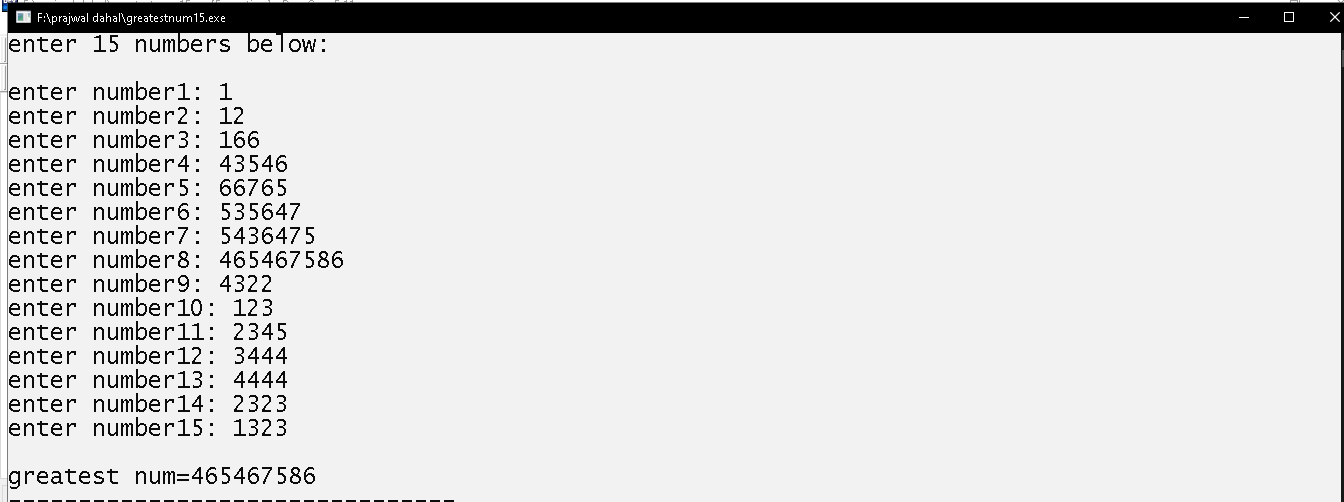
}

printf("\ngreatest num=%d",g);

return 0;

}

## Output Window



# Write a program to take 15 integers from user and display smallest number.

## Source Code

#include<stdio.h>

int main()

{

int a[15],i;int s;

printf("enter 15 numbers below:\n\n");

for (i=0;i<15;i++)

{

printf("enter number%d: ",i+1);

scanf("%d",&a[i]);

}

S=a[0];

for (i=0;i<15;i++)

{

if(a[i]<s)

{

s=a[i];

}

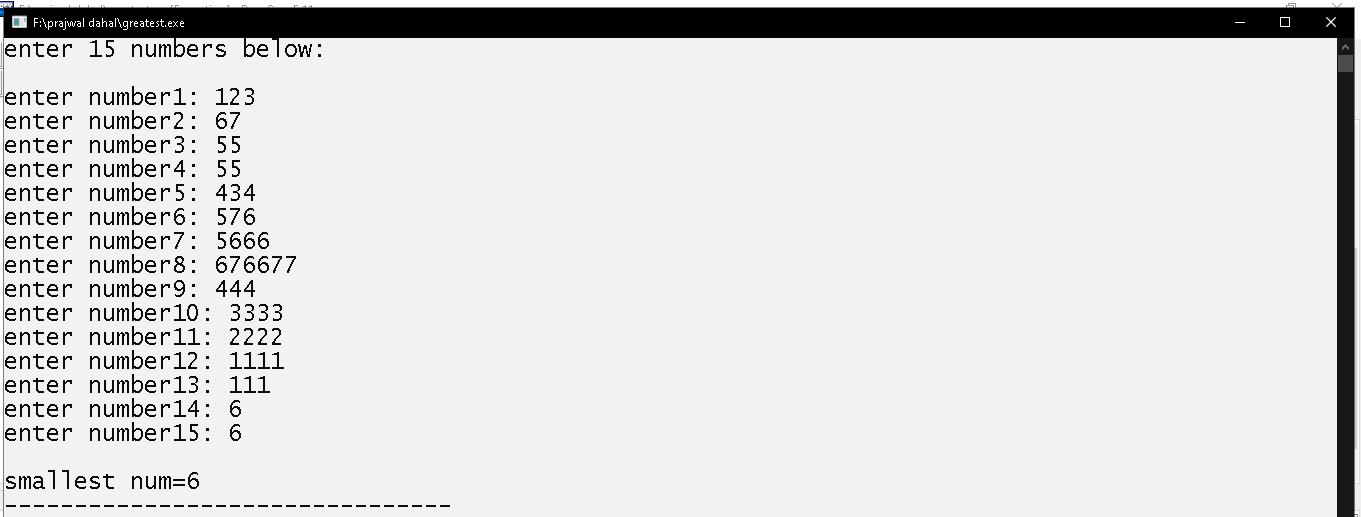
}

printf("\nsmallest num is %d",s);

return 0;

}

## Output Window



# Write program to take 5 integers in two arrays, let say A and B then display the sum array after adding A and B, i.e. A+B.

## Source Code

#include<stdio.h>

int main()

{

int a[5],b[5],i,sum[5];

printf("enter 5 numbers below:\n\n");

for (i=0;i<5;i++)

{

printf("enter number%d: ",i+1);

scanf("%d",&a[i]);

}

printf("\n\nenter again 5 numbers...\n");

for (i=0;i<5;i++)

{

printf("enter number%d: ",i+1);

scanf("%d",&b[i]);

}

for (i=0;i<5;i++)

{

sum[i]=a[i]+b[i];

}

printf("\ncorresponding sum result:\n");

for (i=0;i<5;i++)

{

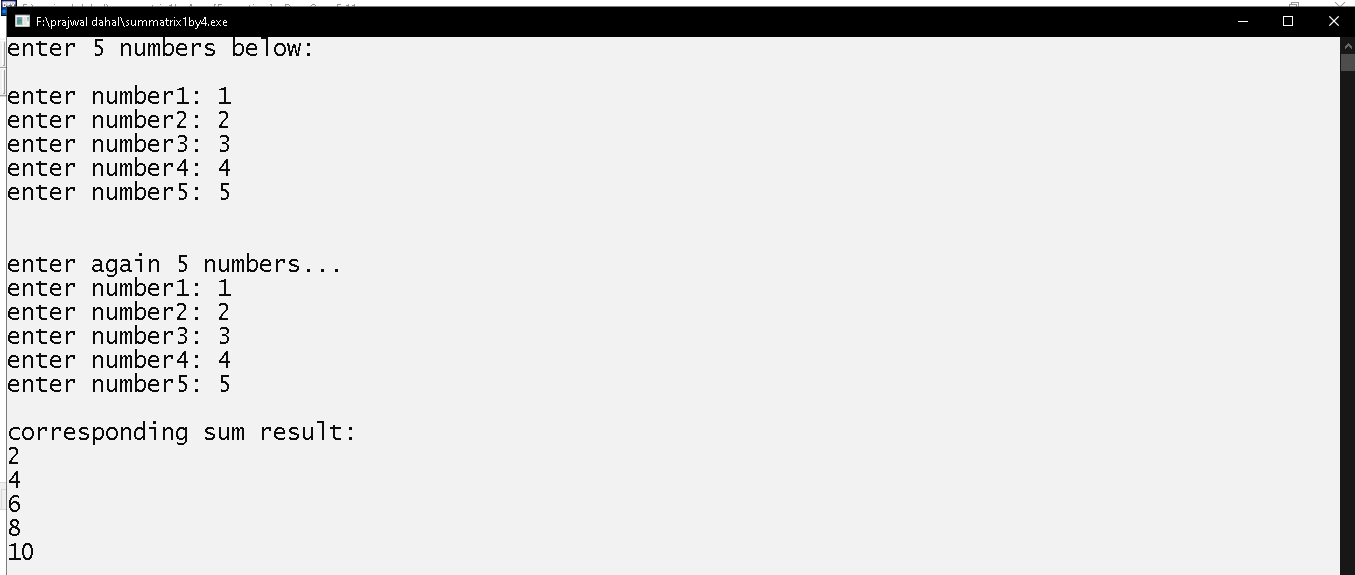
printf("%d\n",sum[i]);

}

return 0;

}

## Output Window



# Write a program to take title, author and price of a book and display them.

## Source code:

#include<stdio.h>

struct book

{

char title[20];

char author[20];

float price;

}b;

int main()

{

printf("enter a title of book: ");

gets(b.title);

printf("enter a author of book: ");

gets(b.author);

printf("enter a price of book: ");

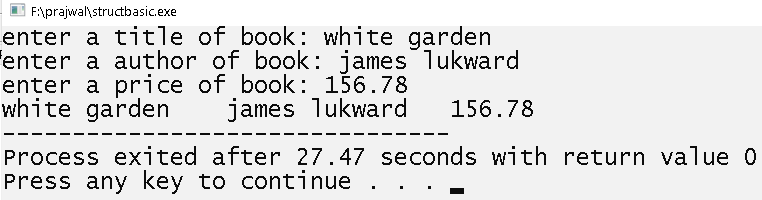
scanf("%f",&b.price);

printf("%s\t%s\t%f",b.title,b.author,b.price);

return 0;

}

## Output window:



# Write a program using structure to take (name, age and height) of 5 person and display them.

## Source code:

#include<stdio.h>

struct student

{

char name[20];

char address[50];

int age;

float height;

}s[4];

int main()

{

int i;int a;

printf("enter a name age,height and address of 4 student below:);

for(i=0;i<4;i++)

{

scanf("%s%d%f%s",s[i].name,&s[i].age,&s[i].height,s[i].address);

}

printf("\n");

for(i=0;i<4;i++)

{

printf("%s\t%d\t",s[i].name,s[i].age);

printf("%.2f\t%s\n",s[i].height,s[i].address);

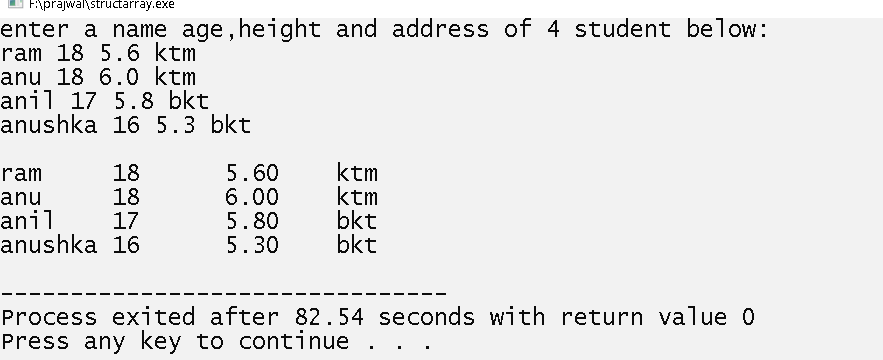
}

return 0;

}

## 

## Output windows



# Write a program to take name, age, height, address of 3 person and display the record of person whose age is greater than 20 and less than 30.

## Source code:

#include<stdio.h>

struct person

{

char name[20];

char address[50];

int age;

float height;

}s[3];

int main()

{

int i;int a;

printf("enter a name,age,height and address of 3 person below:");

for(i=0;i<3;i++)

{

scanf("%s%d%f%s",s[i].name,&s[i].age,&s[i].height,s[i].address);

}

for(i=0;i<3;i++)

{

if(s[i].age>20&&s[i].age<30)

{

printf("%s\t%d\t",s[i].name,s[i].age);

printf("%.2f\t%s",s[i].height,s[i].address);

}

}

return 0;

}

## Output windows



# Write a program to demonstrate a use of pointers.

## Source code:

#include<stdio.h>

int main()

{

int \*p,a;char b;

printf("enter a number: ");

scanf("%d",&a);

p = &a; /\*store address of a variable\*/

printf("a=%d\n",a);

\*p=123;/\*store '123' in the memory address store by 'p' pointer variable\*/

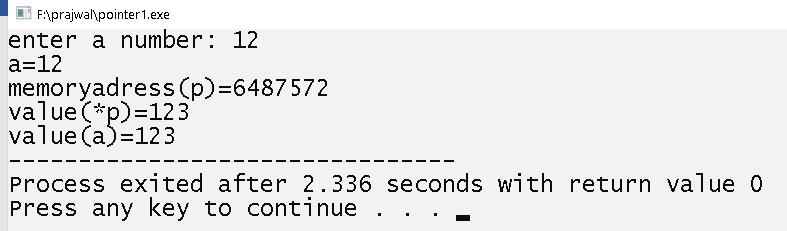
printf("memoryadress(p)=%d\n",p);

printf("value(a)=%d",a);

return 0;

}

## Output windows:



# Write a program to take 6 integers from user and store them in num.txt.

## Source code:

#include<stdio.h>

int main()

{

FILE \*f;

int a[15],i;

f=fopen("num.txt","w");

printf("enter 6 numbers below:\n");

for (i=0;i<6;i++)

{

scanf("%d",&a[i]);

}

for (i=0;i<6;i++)

{

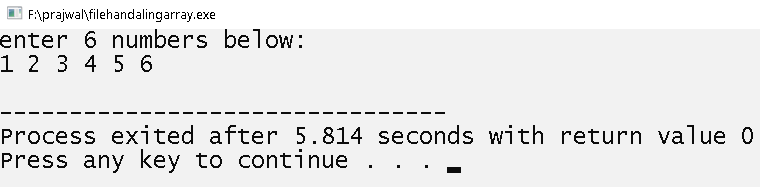
fprintf(f,"%4d",a[i]);

}

return 0;

}

## Output window:



# Write a program to take 6 integers from file num.txt and display them.

## Source code:

#include<stdio.h>

int main()

{

FILE \*fp;

int a[6],i;

fp=fopen("num.txt","r");

for (i=0;i<6;i++)

{

fscanf(fp,"%d",&a[i]);

}

for (i=0;i<6;i++)

{

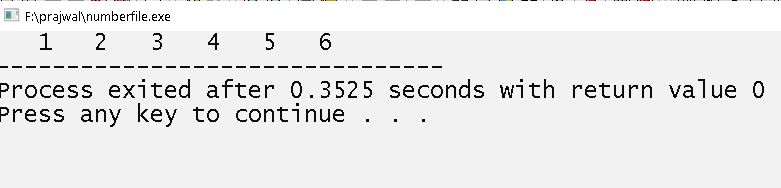
printf("%4d",a[i]);

}

return 0;

}

## Output Window:



# Write a program to store name, age and height of 4 person and store them in person.txt.

## Source code:

#include<stdio.h>

struct person

{

char name[40];

int age;

int height;

}p[4];

int main()

{

FILE \*fp;

int i;

fp=fopen("person.txt","w");

printf("enter name age and height of 4 person:\n");

for(i=0;i<4;i++)

{

scanf("%s%d%f",p[i].name,&p[i].age,&p[i].height);

}

for(i=0;i<4;i++)

{

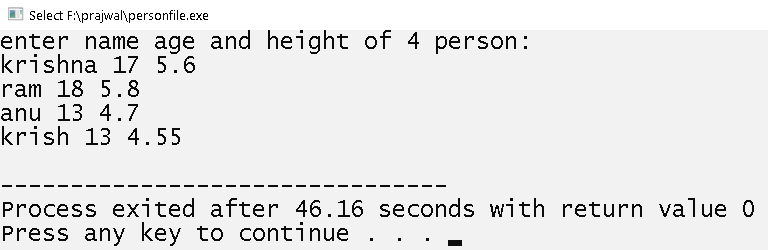
fprintf(fp,"%s\t%d\t%f\n",p[i].name,p[i].age,p[i].height);

}

return 0;

}

## Output Window:



# Write a program to read the data from file “person.txt” and display them.

## Source code

#include<stdio.h>

struct person

{

char name[40];

int age;

float height;

}p[4];

int main()

{

FILE \*fp;

int i;

fp=fopen("person.txt","r");

if(fp==NULL)

{

printf("error");

}

for(i=0;i<4;i++)

{

fscanf(fp,"%s%d%f",p[i].name,&p[i].age,&p[i].height);

}

for(i=0;i<4;i++)

{

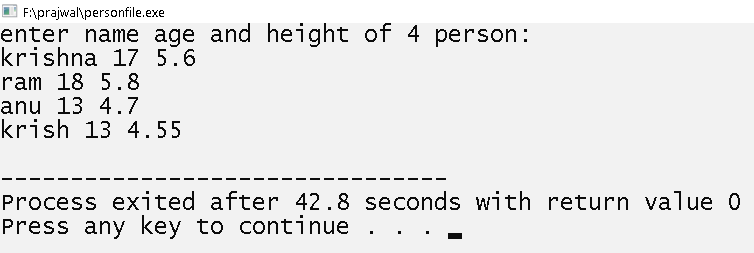
printf("%s\t%d\t%.2f\n",p[i].name,p[i].age,p[i].height);

}

return 0;

}

## Output windows



# Write a program to take 10 integers from user and display the sum using function.

## Source code:

#include<stdio.h>

int num[10];int i; int sum;

void input()

{

printf("enter a 10 numbers:");

for(i=0;i<10;i++)

{

scanf("%d",&num[i]);

}

}

void add()

{

for(i=0;i<10;i++)

{

sum+=num[i];

}

}

void display()

{

printf("sum is %d",sum);

}

int main()

{

input();

add();

display();

return 0;

}

## Output Windows:



# Write a program to display the length of total character in the string using function.

## Source code

#include<stdio.h>

#include<string.h>

char a[50];int k;

void input()

{

printf("enter a string: ");

gets(a);

}

void charlength()

{

k=strlen(a);

}

void output()

{

printf("length of '%s' is %d",a,k);

}

int main()

{

input();

charlength();

output();

return 0;

}

## Output Windows

