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| **20.** | WAP to Print 2-D Array. |  |  |

**PROBLEM SHEET**

1. **Write a C Program to print “Hello World”.**

#include<stdio.h>

#include<conio.h>

void main()

{

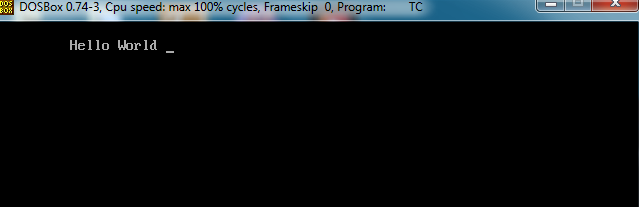
clrscr();

printf("\n\t Hello World ");

getch();

}

* **Output :**



1. **Write a C Program to take Two Numbers and Performs Addition , Subtraction ,multiplication and Division.**

#include<stdio.h>

#include<conio.h>

void main()

{

int a,b,c,d,e,f;

clrscr();

printf("\n\t enter the value of a:");

scanf("%d",&a);

printf("\n\t enter the value of b:");

scanf("%d",&b);

c=a+b;

d=a-b;

e=a\*b;

f=a/b;

printf("\n\t Addition is : %d",c);

printf("\n\t Subtraction is : %d",d);

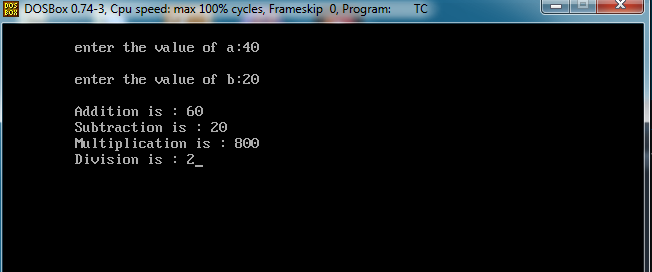
printf("\n\t Multiplication is : %d",e);

printf("\n\t Division is : %d",f);

getch();

}

* **Output :**



1. **Write a C Program to Find Simple Interest.**

#include<stdio.h>

#include<conio.h>

void main()

{

int SI,p,r,n;

clrscr();

printf("\n\t enter the principle amount:");

scanf("%d",&p);

printf("\n\t enter the rate of interest:");

scanf("%d",&r);

printf("\n\t enter the number of years:");

scanf("%d",&n);

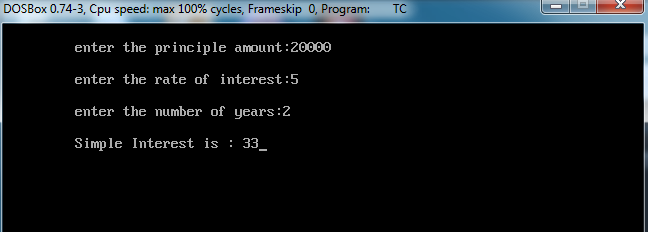
SI=p\*r\*n/100;

printf("\n\t Simple Interest is : %d",SI);

getch();

}

* **Output :**



1. **Write a C Program to Find Compound Interest.**

#include<stdio.h>

#include<conio.h>

#include<math.h>

void main()

{

float p,r,t,CI;

clrscr();

printf("\n\t enter the value of principle amount:");

scanf("%f",&p);

printf("\n\t enter the value of rate:");

scanf("%f",&r);

printf("\n\t enter the value of time:");

scanf("%f",&t);

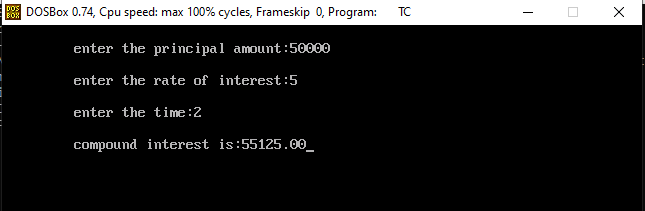
CI=p\*pow((1+r/100),t)-p;

printf("\n\t Compound Interest is :%f",CI);

getch();

}

* **Output :**



1. **Write a C Program to Find Area of Circle.**

#include<stdio.h>

#include<conio.h>

#define PI 3.14

void main()

{

int r;

float area;

clrscr();

printf("\n\t enter the radius:");

scanf("%d",&r);

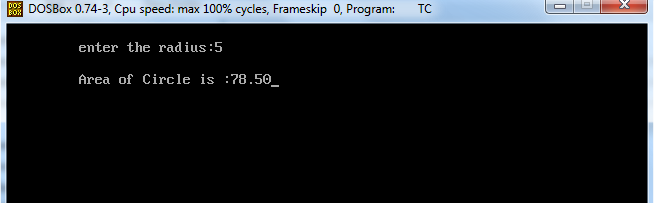
area=PI\*r\*r;

printf("\n\t Area of Circle is :%.2f",area);

getch();

}

* **Output :**



1. **Write a C Program to Find Area of Triangle.**

#include<stdio.h>

#include<conio.h>

void main()

{

int b,h;

float area;

clrscr();

printf("\n\t enter the base value:");

scanf("%d",&b);

printf("\n\t enter the height value:");

scanf("%d",&h);

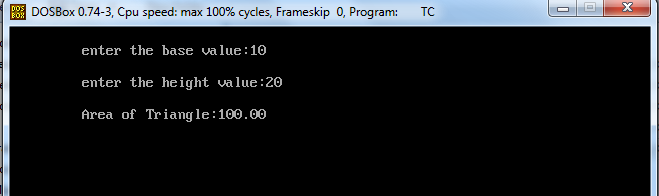
area=(b\*h)/2;

printf("\n\t Area of Triangle:%.2f",area);

getch();

}

* **Output :**



1. **Write a C Program to Find Area of Rectangle 0.5\*l\*b.**

#include<stdio.h>

#include<conio.h>

void main()

{

int b,l,area;

clrscr();

printf("\n\t enter the value of breadth:");

scanf("%d",&b);

printf("\n\t enter the value of length:");

scanf("%d",&l);

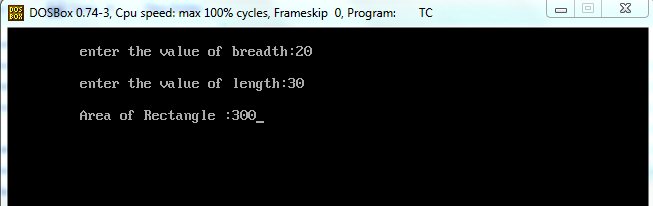
area=0.5\*l\*b;

printf("\n\t Area of Rectangle :%d",area);

getch();

}

* **Output :**



1. **Write a C Program to prepare Marksheet Count , Total , Grade , Percentage.**

#include<stdio.h>

#include<conio.h>

void main()

{

int rollno;

char name[30];

float sub1,sub2,sub3,per,total,grade;

clrscr();

printf("\n\t enter the student roll no:");

scanf("%d",&rollno);

printf("\n\t enter the student name:");

scanf("%s",&name);

printf("\n\t enter the marks of sub1:");

scanf("%f",&sub1);

printf("\n\t enter the marks of sub2:");

scanf("%f",&sub2);

printf("\n\t enter the marks of sub3:");

scanf("%f",&sub3);

printf("\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

total=sub1+sub2+sub3;

printf("\n\t Total Marks :%.2f",total);

printf("\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

per=total/300\*100;

printf("\n\t Percentage :%.2f",per);

printf("\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

if(per>=90)

{

printf("\n\t Grade is : A");

}

else if(per>=80)

{

printf(\\"\n\t Grade is : B");

}

else if(per>=70)

{

printf("\n\t Grade is : C");

}

else if(per>=60)

{

printf("\n\t Grade is : D");

}

else if(per>=40)

{

printf("\n\t Grade is : E");

}

else

{

printf("\n\t Fail");

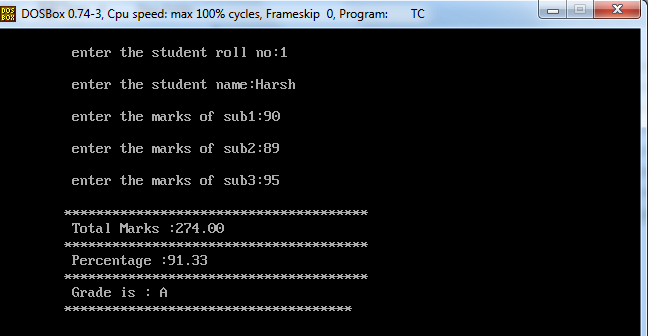
}

printf("\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

getch();

}

* **Output :**



1. **Write a C Program to Check Number is Zero , Positive or Negative.**

#include<stdio.h>

#include<conio.h>

void main()

{

int n;

clrscr();

printf("\n\t enter the value of n:");

scanf("%d",&n);

if(n>0)

{

printf("\n\t Number is Positive");

}

else if(n<0)

{

printf("\n\t Number is Negative");

}

else

{

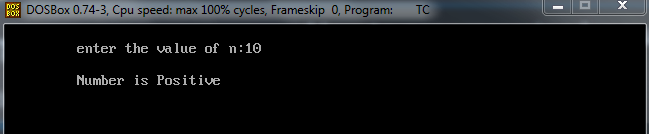
printf("\n\t Number is Zero");

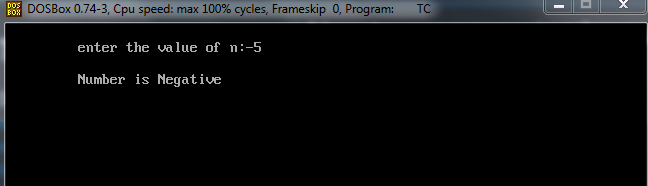
}

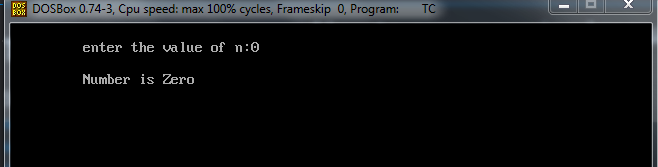
getch();

}

* **Output :**







1. **Write a C Program to Swap two Number.**

#include<stdio.h>

#include<conio.h>

void main()

{

int a,b;

clrscr();

printf("\n\t enter the value of A:");

scanf("%d",&a);

printf("\n\t enter the value of B:");

scanf("%d",&b);

a=a+b;

b=a-b;

a=a-b;

printf("\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

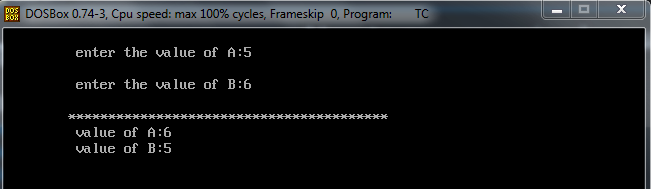
printf("\n\t value of A:%d",a);

printf("\n\t value of B:%d",b);

getch();

}

* **Output :**



1. **Write a C Program to check Number is Even or Odd.**

#include<stdio.h>

#include<conio.h>

void main()

{

int n;

clrscr();

printf("\n\t Enter the value of n:");

scanf("%d",&n);

if(n%2==0)

{

printf("\n\t Even Number");

}

else

{

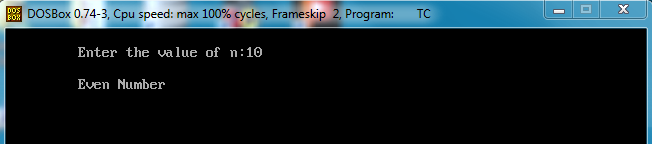
printf("\n\t Odd Number");

}

getch();

}

* **Output :**



1. **Write a C Program to Find Greatest number between Two.**

#include<stdio.h>

#include<conio.h>

void main()

{

int a,b;

clrscr();

printf("\n\t Enter the value of a:");

scanf("%d",&a);

printf("\n\t Enter the value of b:");

scanf("%d",&b);

if(a>b)

{

printf("\n\t A is greater than B");

}

else

{

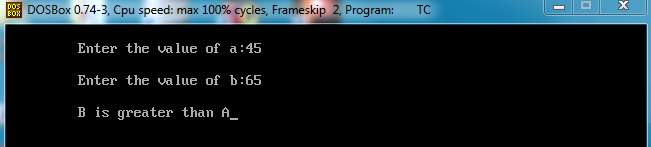
printf("\n\t B is greater than A");

}

getch();

}

* **Output :**



1. **Write a C Program to print 1 to 10 Numbers.**

#include<stdio.h>

#include<conio.h>

void main()

{

int i,n;

clrscr();

printf("\n\t Enter the value of n:");

scanf("%d",&n);

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

{

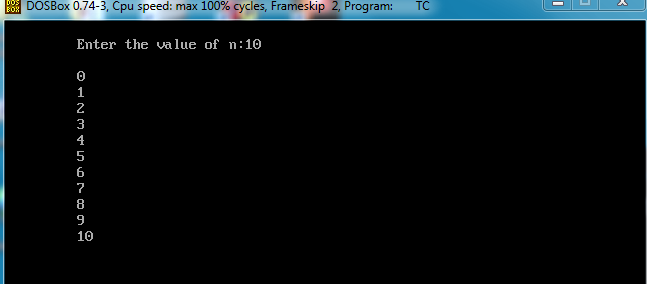
printf("\n\t %d",i);

}

getch();

}

* **Output :**



1. **Write a C Program to Check Wether Number is Prime or Not.**

#include<stdio.h>

#include<conio.h>

void main()

{

int i,n;

clrscr();

printf("\n\t Enter the value of n:");

scanf("%d",&n);

for(i=2;i<=n;i++)

{

if(n%i==0)

{

break;

}

}

if(i==n)

{

printf("\n\t Prime Number");

}

else

{

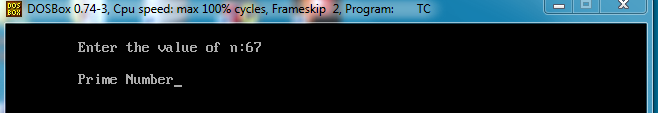
printf("\n\t Not Prime Number");

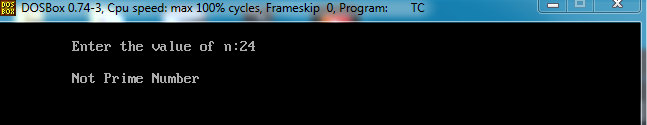
}

getch();

}

* **Output :**





1. **Write a C Program to print Fibonacci Series.**

#include<stdio.h>

#include<conio.h>

void main()

{

int i,n,a=0,b=1,c;

clrscr();

printf("\n\t Enter the value of n:");

scanf("%d",&n);

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

{

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

c=a+b;

a=b;

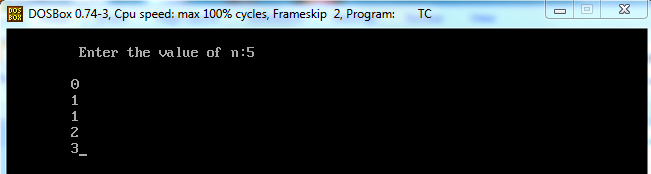
b=c;

}

getch();

}

* **Output :**



1. **Write a C Program to print Reverse Number.**

#include<stdio.h>

#include<conio.h>

void main()

{

int rem,rev=0,n;

clrscr();

printf("\n\t Enter the value of n:");

scanf("%d",&n);

while(n!=0)

{

rem=n%10;

rev=rev\*10+rem;

n=n/10;

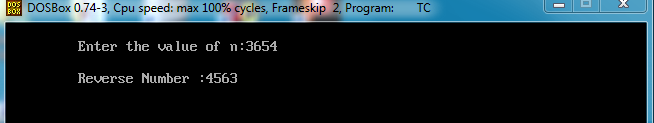
}

printf("\n\t Reverse Number :%d",rev);

getch();

}

* **Output :**



1. **Write a C Program to Check Whether number is Palindrome or Not.**

#include<stdio.h>

#include<conio.h>

void main()

{

int n,r,sum=0,temp;

clrscr();

printf("\n\t Enter the value of n:");

scanf("%d",&n);

temp=n;

while(n>0)

{

r=n%10;

sum=sum\*10+r;

n=n/10;

}

if(temp==sum)

{

printf("\n\t Palindrome Number");

}

else

{

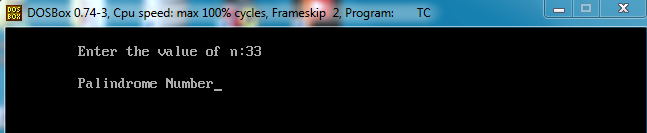
printf("\n\t Not a Palindrome Number");

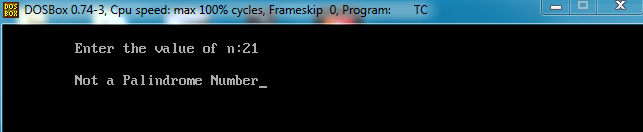
}

getch();

}

* **Output :**





1. **Write a C Program to Check Armstrong Number or Not.**

#include<stdio.h>

#include<conio.h>

void main()

{

int n,r,sum=0,i;

clrscr();

printf("\n\t Enter the value of n:");

scanf("%d",&n);

i=n;

while(n>0)

{

r=n%10;

sum=sum+(r\*r\*r);

n=n/10;

}

if(i==sum)

{

printf("\n\t ARMSTRONG NUMBER");

}

else

{

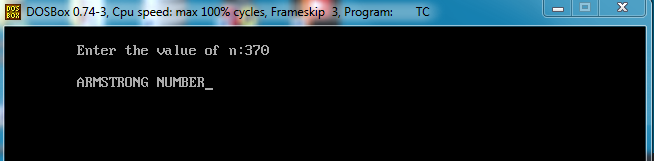
printf("\n\t NOT ARMSTRONG NUMBER");

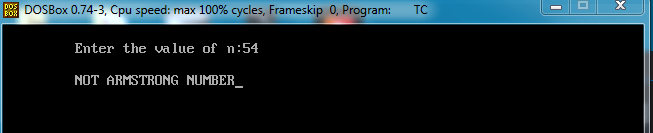
}

getch();

}

* **Output :**





1. **Write a C Program to Print Array and Sum of Array.**

#include<stdio.h>

#include<conio.h>

void main()

{

int a[3][3],i,j,sum=0;

clrscr();

for(i=0;i<=2;i++)

{

for(j=0;j<=2;j++)

{

printf("\n\t Enter the Element a[%d][%d]:",i,j);

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

}

}

printf("\n\t--------------------MATRIX--------------------------\n");

for(i=0;i<=2;i++)

{

for(j=0;j<=2;j++)

{

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

}

printf("\n");

}

printf("\t----------------------------------------------------\n");

for(i=0;i<=2;i++)

{

for(j=0;j<=2;j++)

{

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

}

}

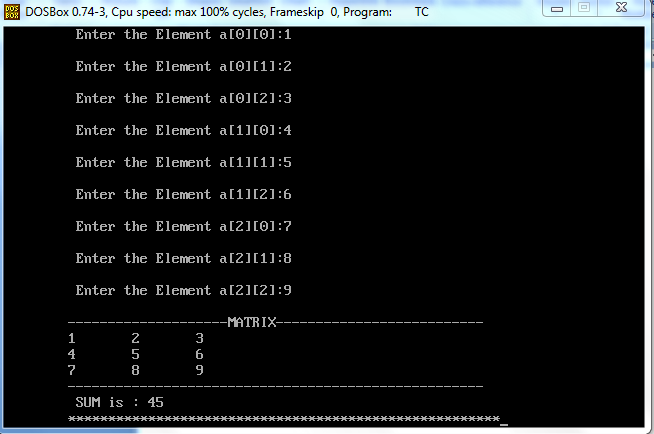
printf("\t SUM is : %d",sum);

printf("\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

getch();

}

**Output :**

’

1. **Write a C Program to print 2-D Array.**

#include<stdio.h>

#include<conio.h>

void main()

{

int a[3][3],i,j;

clrscr();

for(i=0;i<=2;i++)

{

for(j=0;j<=2;j++)

{

printf("\n\t Enter the element a[%d][%d]:",i,j);

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

}

}

printf("\n\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* TWO DIMENSION ARRAY \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

for(i=0;i<=2;i++)

{

for(j=0;j<=2;j++)

{

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

}

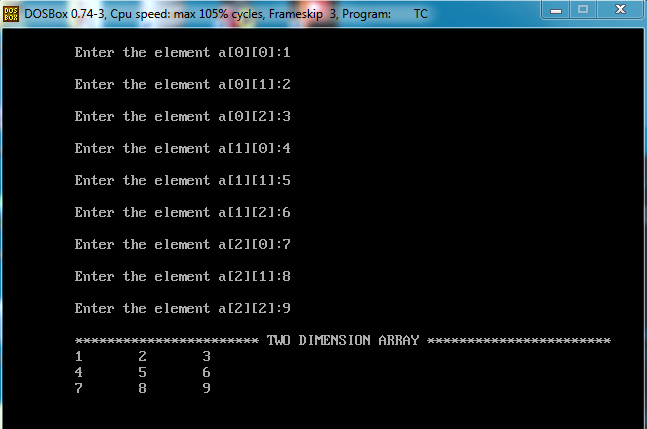
printf("\n");

}

getch();

}

* **Output :**



1. **Write a C Program to Find a Linear Search Element .**

#include<stdio.h>

#include<conio.h>

void main()

{

int a[50],n,i,key;

clrscr();

printf("\n\t Enter the size of an Array:");

scanf("%d",&n);

printf("\n\t \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

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

{

printf("\n\t Enter the elements of a[%d]:",i);

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

}

printf("\n\t------------------------------------------------\n");

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

{

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

}

printf("\n\t------------------------------------------------\n");

printf("\n\t Enter the key element to be search:");

scanf("%d",&key);

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

{

if(a[i]==key)

{

break;

}

}

printf("\n\t \*\*\*\*\*\*\*\*\*\*\*\*\*\* Linear Search \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");

if(key==a[i])

{

printf("\n\t Successful Search at a[%d]:",i);

}

else

{

printf("\n\t Unsuccessful Search");

}

getch();

}

* **Output :**

