**1. Write a program in C to display the first 10 natural numbers.**

#include <stdio.h>

main()

{

int i;

printf("The first 10 natural numbers are:\n");

for (i=1;i<=10;i++)

{

printf("%d ",i);

}

printf("\n");

}

**2. Write a C program to find the sum of first 10 natural numbers.**

#include <stdio.h>

main()

{

int j, sum = 0;

printf("The first 10 natural number is :\n");

for (j = 1; j <= 10; j++)

{

sum = sum + j;

printf("%d ",j);

}

printf("\nThe Sum is : %d\n", sum);

}

**3. Write a program in C to read 10 numbers from keyboard and find their sum and average.**

#include <stdio.h>

main()

{

int i,n,sum=0;

float avg;

printf("Input the 10 numbers : \n");

for (i=1;i<=10;i++)

{

printf("Number-%d :",i);

scanf("%d",&n);

sum +=n;

}

avg=sum/10.0;

printf("The sum of 10 no is : %d\nThe Average is : %f\n",sum,avg);

}

**4. Write a program in C to read 10 numbers from keyboard and find their sum and average.**

#include <stdio.h>

main()

{

int i,n,sum=0;

float avg;

printf("Input the 10 numbers : \n");

for (i=1;i<=10;i++)

{

printf("Number-%d :",i);

scanf("%d",&n);

sum +=n;

}

avg=sum/10.0;

printf("The sum of 10 no is : %d\nThe Average is : %f\n",sum,avg);

}

**5. Write a program in C to display the multiplication table of a given integer.**

#include <stdio.h>

main()

{

int j,n;

printf("Input the number (Table to be calculated) : ");

scanf("%d",&n);

printf("\n");

for(j=1;j<=10;j++)

{

printf("%d X %d = %d \n",n,j,n\*j);

}

}

**6. Write a C program to calculate the factorial of a given number.**

#include <stdio.h>

main()

{

int i,f=1,num;

printf("Input the number : ");

scanf("%d",&num);

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

f=f\*i;

printf("The Factorial of %d is: %d\n",num,f);

}

**7. Write a program in C to display the n terms of square natural number and their sum. The series is as below: 1 4 9 16 ... n Terms**

#include <stdio.h>

main()

{

int i,n,sum=0;

printf("Input the number of terms : ");

scanf("%d",&n);

printf("\nThe square natural upto %d terms are :",n);

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

{

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

sum+=i\*i;

}

printf("\nThe Sum of Square Natural Number upto %d terms = %d \n",n,sum);

}

**7. Write a C program to check whether a given number is an armstrong number or not.**

**When the sum of the cube of the individual digits of a number is equal to that number, the number is called Armstrong number. For Example 153 is an Armstrong number because 153 = 13+53+33.**

include <stdio.h>

main()

{

int num,r,sum=0,temp;

printf("Input a 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);

}

**8. Write a program in C to display the first n terms of Fibonacci series. The series is as follows: Fibonacci series 0 1 2 3 5 8 13 .....**

#include <stdio.h>

main()

{

int prv=0,pre=1,trm,i,n;

printf("Input number of terms to display : ");

scanf("%d",&n);

printf("Here is the Fibonacci series upto to %d terms : \n",n);

printf("% 5d % 5d", prv,pre);

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

{

trm=prv+pre;

printf("% 5d",trm);

prv=pre;

pre=trm;

}

printf("\n");

}

**9. Write a program in C to display the number in reverse order.**

#include <stdio.h>

main()

{

int num,r,sum=0,t;

printf("Input a number: ");

scanf("%d",&num);

for(t=num;num!=0;num=num/10)

{

r=num % 10;

sum=sum\*10+r;

}

printf("The number in reverse order is : %d \n",sum);

}

**10. Write a program in C to check whether a number is a palindrome or not.**

#include <stdio.h>

void main()

{

int num,r,sum=0,t;

printf("Input a number: ");

scanf("%d",&num);

for(t=num;num!=0;num=num/10){

r=num % 10;

sum=sum\*10+r;

}

if(t==sum)

printf("%d is a palindrome number.\n",t);

else

printf("%d is not a palindrome number.\n",t);

}

**11. Write a program in C to check whether a number is a palindrome or not.**

#include <stdio.h>

main()

{

int num,r,sum=0,t;

printf("Input a number: ");

scanf("%d",&num);

for(t=num;num!=0;num=num/10)

{

r=num % 10;

sum=sum\*10+r;

}

if(t==sum)

printf("%d is a palindrome number.\n",t);

else

printf("%d is not a palindrome number.\n",t);

}

**6. Write a program in C to display the pattern like right angle triangle using an asterisk.**

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#include <stdio.h>

main()

{

int i,j,rows;

printf("Input number of rows : ");

scanf("%d",&rows);

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

{

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

printf("\*");

printf("\n");

}

}