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**Practical – 7: Program to implement User Defined Function and string manipulation functions.**

1. Write a function named Swap, which will swap the values of two variables. (Use the concept of call by value).

#include<stdio.h>

void main()

{

int a,b;

void swap( int,int);

printf("enter two number:");

scanf("%d %d",&a,&b);

printf("values before swapping are %d, %d\n",a,b);

swap(a,b);

}

void swap(int p,int q)

{

int r;

r=p;

p=q;

q=r;

printf("values after swapping are %d, %d",p,q);

}

1. Write a function named CheckPrime, which will check an input number is prime or not.

#include<stdio.h>

void main()

{

int n;

void checkprime(int n);

printf("enter any number to check: ");

scanf("%d",&n);

checkprime(n);

}

void checkprime(int num)

{

int i ,f=0;

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

{

if(num%i==0)

{

f++;

break;

}

}

if(f!=0)

{

printf("%d is not prime no.",num);

}

else if(f==0)

{

printf("%d is an prime no.",num);

}

}

1. Program to implement strlen (), strcat (),strcpy () using the concept of Functions.

#include<stdio.h>

#include<string.h>

void main()

{

char str1[10];

char str2[10];

int m,n;

printf("enter 2 string");

gets(str1);

gets(str2);

m= strlen(str1);

printf("length of first string:%d\n",m);

n= strlen(str2);

printf("length of second string:%d\n",n);

strcat( str1,str2);

printf("concatinated string is %s\n",str1);

strcpy(str1,"uttarpradesh");

printf("copied string is %s\n",str1);

}

1. Write a function named GetMax, that will find the maximum among array of numbers.

#include<stdio.h>

void main()

{

int a[10],i,max;

void getmax(int x[],int);

printf("enter the element of matrix:");

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

{

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

}

getmax(a,10);

}

void getmax(int p[],int n)

{

int max=p[0],i;

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

{

if(p[i]>max)

{

max=p[i];

}

}

printf(" Maximum element of array is %d\n ",max);

}

1. Write a program to check whether the entered string is palindrome or not.

void main()

{

char str1[10];

int m,i,f=0;

printf("enter a string: ");

gets(str1);

m=strlen(str1);

for(i=0;i<m-1;i++)

{

str1[i]!=str1[m-i-1];

f=1;

break;

}

if(f==1)

{

printf("string is palindrome");

}

else

{

printf("string is not palindrome");

}

}