1. Write a function to swap values of two in variables of calling function. (TSRN)

Ans #include<stdio.h>

void swap(int\*,int\*);

int main()

{

int i,j;

printf("Enter the two numbers : ");

scanf("%d %d",&i,&j);

swap(&i,&j);

return 0;

}

void swap(int\*x,int\*y)

{

int t;

t=\*x;

\*x=\*y;

\*y=t;

printf("After swaping two numbers are %d %d",\*x,\*y);

}

2. Write a function to swap strings of two char arrays of calling functions. (TSRN)

Ans #include<stdio.h>

void swap(char\*\*,char\*\*);

int main()

{

char \*x[20],\*y[20];

printf("Enter two strings : ");

gets(x);

gets(y);

swap(&x,&y);

printf("%s %s",x,y);

return 0;

}

void swap(char\*\*a,char\*\*b)

{

char \*t;

t=\*a;

\*a=\*b;

\*b=t;

}

3. Write a function to sort an array of int type values. [ void sort(int \*ptr,int size); ]

Ans #include<stdio.h>

void sort(int\*,int);

int main()

{

int a[100],i,n;

printf("Enter the size of array: ");

scanf("%d",&n);

printf("Enter the values of array: ");

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

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

sort(a,n);

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

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

return 0;

}

void sort(int\*x,int y)

{

int i,j,t;

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

{

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

{

if(x[i]>x[j])

{

t=x[i];

x[i]=x[j];

x[j]=t;

}

}

}

}

4. Write a program in C to demonstrate how to handle the pointers in the program.

Ans

5. Write a program to find the maximum number between two numbers using a pointer

Ans #include<stdio.h>

void great(int\*,int\*);

int main()

{

int i,j;

printf("Enter two numbers : ");

scanf("%d%d",&i,&j);

great(&i,&j);

return 0;

}

void great(int\*x,int \*y)

{

if(\*x>\*y)

printf("Maximum Number is %d",\*x);

else

printf("Maximum Number is %d",\*y);

}

6. Write a program to calculate the length of the string using a pointer

Ans #include<stdio.h>

int length(char\*);

int main()

{

char x[100];

int y;

printf("Enter a string: ");

gets(x);

y=length(x);

printf("Length of the string is %d",y);

return 0;

}

int length(char\*a)

{

int i=0;

while(\*a!='\0')

{

i++;

a++;

}

return i;

}

7. Write a program to count the number of vowels and consonants in a string using a pointer.

Ans #include<stdio.h>

void countVC(char\*);

int main()

{

char x[100];

printf("Enter a string: ");

gets(x);

countVC(x);

return 0;

}

void countVC(char\*p)

{

int vCount=0,cCount=0;

while(\*p!='\0')

{

if(\*p=='A' ||\*p=='E' ||\*p=='I' ||\*p=='O' ||\*p=='U'

||\*p=='a' ||\*p=='e' ||\*p=='i' ||\*p=='o' ||\*p=='u')

vCount++;

else

cCount++;

p++;

}

printf("Number of vowel is %d",vCount);

printf("\n Number of consonent is %d",cCount);

}

8. Write a program to compute the sum of all elements in an array using pointers.

Ans #include<stdio.h>

void sum(int\*);

int main()

{

int x[100],i;

printf("Enter Ten Numbers: ");

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

{

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

}

sum(x);

return 0;

}

void sum(int\*p)

{

int s=0,i;

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

{

s=s+p[i];

}

printf("Sum is %d",s);

}

9. Write a program to print the elements of an array in reverse order.

Ans #include<stdio.h>

#include<string.h>

void Reverse(char\*,int);

int main()

{

char x[100],l=0;

printf("Enter a string: ");

gets(x);

l=strlen(x);

Reverse(x,l);

return 0;

}

void Reverse(char\*p,int x)

{

int i;

for(i=x-1;i>=0;i--)

printf("%c",p[i]);

}

10. Write a program to print a string in reverse using a pointer

Ans #include<stdio.h>

#include<string.h>

void Reverse(char\*,int);

int main()

{

char x[100],l=0;

printf("Enter a string: ");

gets(x);

l=strlen(x);

Reverse(x,l);

return 0;

}

void Reverse(char\*p,int x)

{

int i;

for(i=x-1;i>=0;i--)

printf("%c",p[i]);

}