

1. Write a c Program to find largest of 3 numbers

```
#include<stdio.h>
int main()
{
    int a,b,c,x;
    printf("enter 3 numbers:");
    scanf("%d%d%d",&a,&b,&c);
    if(a>b && a>c)
    {
        x=a;
    }
    else if(b>c)
    {
        x=b;
    }
    else
    {
        x=c;
    }
    printf("largest among 3 numbers is%d",x);
    return 0;
}
```

2. Write a c program to find the element in a array using linear search.

```
#include<stdio.h>
int main()
{
    int i,a[5],n;
    int key,flag=0;
    printf("enter the array size\n");
    scanf("%d",&n);
    printf("enter the array elements:\n");
    for(i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
    printf("enter the key:\n");
    scanf("%d",&key);
    for(i=0;i<5;i++)
    {
        if(key==a[i])
        {
            flag=1;
            break;
        }
    }
    if(flag==1)
```

```

        printf("%dkey is found at position %d",key,i);
    else
        printf("key is not found");
}

```

3. write a c program to display the number using function and call by value.

```

#include<stdio.h>
int fun(int,int);
int main()
{
    int x=10,y=20;
    fun(x,y);
    printf("value of x is %d",x);
    printf("value of y is %d",y);
}
int fun(int x,int y)
{
    int x=30,y=40;
    printf("value of x is %d",x);
    printf("value of y is %d",y);
}

```

4. write a c program to display the number using function and call by reference.

```

#include<stdio.h>
int main()
{
    int x=10,y=20;
    fun(x,y);
    printf("value of x is %d",x);
    printf("value of y is %d",y);
}
int fun(int *x,int *y)
{
    int *x=20;
    int *y=30;
    printf("value of x is %d",*x);
    printf("value of y is %d",*y);
}

```

5. write a c program to read and print the array elements.

```

#include <stdio.h>
int main()
{
    int a[10];
    int i;

```

```

    printf("\n\nRead and Print elements of an array:\n");
    printf("Input 10 elements in the array :\n");
    for(i=0; i<10; i++)
    {
        printf("element - %d : ",i);
        scanf("%d", &a[i]);
    }

    printf("\nElements in array are: ");
    for(i=0; i<10; i++)
    {
        printf("%d ", a[i]);
    }
    printf("\n");
}

```

6. write a c program to find the given number is odd or even.

```

#include <stdio.h>
int main()
{
    int a;
    printf("Enter a: ");
    scanf("%d", &a);

    if (a % 2 == 0)
    {
        printf("The given number is EVEN\n");
    }
    else
    {
        printf("The given number is ODD\n");
    }
    return 0;
}

```

7. write a c program to find the ASCII value of a character.

```

#include<stdio.h>
int main()
{
    char ch;
    printf(" \n enter the charecter: ");
    scanf("%c",&ch);
    printf(" \n the charecter ascii value ch: %d",ch);
    return 0;
}

```

8. write a c program to print the following pattern.

1
12
123
1234
12345

```
#include<stdio.h>
int main()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        printf("\n");
        for(j=1;j<=i;j++)
            printf("%d", j);
    }
    return 0;
}
```

9. write a c program to print the following pattern.

1
22
333
4444
55555

```
#include<stdio.h>
int main()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        printf("\n");
        for(j=1;j<=i;j++)
            printf("%d", i);
    }
    return 0;
}
```

10. write a c program to print the following pattern


```

#include<stdio.h>
int main()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        printf("\n");
        for(j=1;j<=i;j++)
            printf("*");
    }
    return 0;
}

```

11. write a c program to print the following pattern

```

0
12
345
6789

```

```

#include<stdio.h>
int main()
{
    int i,j, count=0;
    for(i=1;i<=4;i++)
    {
        printf("\n");
        for(j=1;j<=i;j++)
            printf("%d",count++);
    }
    return 0;
}

```

12. write a c program to print the following pattern

```

A
AB
ABC
ABCD
ABCDE
ABCDEF

```

```

#include<stdio.h>
int main()
{
    int i,j;
    for(i=65;i<=70;i++)
    {
        printf("\n");
        for(j=1;j<=i;j++)
            printf("%c",j);
    }
    return 0;
}

```

13. write a c program to print the following pattern

```

1
121
12321
1234321
123454321

```

```

#include<stdio.h>
#define N 5
int main()
{
    int i,j, k, l;
    for(i=1;i<=N;i++)
    {
        for(k=N;k>=I;k--)
            printf(" ");
        for(j=1;j<=i;j++)
            printf("%d",j);
        for(l=j-2;l>0;l--)
            printf("%d",l);
        printf("\n");
    }
    return 0;
}

```