1. **WAP to make an array of the table of Given Number**
   Print the array using a pointer
   Input: 2.
   Output : 2 4 6 8 10 12 14 16 18 20.

2. **Draw a correct diagram and Write the output**

```
#inlcude<stdio.h>
void  main(){

        Int x = 45;
        Int y = 35;
        Int *ptr1 = &x;
        Int *ptr2 = &y;
        printf("%p\n",ptr1);
        printf("%p\n",ptr2);
        Int temp = *ptr1 + *ptr2+2;
        printf("%d\n",temp);
}
```

3. **Draw a correct diagram and Write the output**

```
 #include<stdio.h>
Void main(){

        Int arr[] = {10,20,30,40,50};
        Int *ptr = &arr[0];

        printf("%p\n",ptr);

        printf("%d\n",*ptr++);
        printf("%d\n",*ptr++);
        printf("%p\n",ptr);

        printf("%d\n",(*ptr)++);
        printf("%d\n",(*ptr)++);
}
```

4. **Draw a correct diagram and Write the output**

```
#include<stdio.h>
```

```
void main(){

        int ch1='A';
        int ch2='C';

        int *ptr1=&ch1;
        int *ptr2=&ch2;

        printf("%p\n",ptr1);
        printf("%p\n",ptr2);

        int temp=*ptr2-*ptr1+2;
        printf("%d\n",temp);

        int temp2=ptr1-ptr2;
        printf("%d\n",temp2);


        printf("%p\n",ptr2+5);
}
```

5. Draw a correct diagram and Write the output

```
#include<stdio.h>

void main(){

        int arr[]={10,20,30,40,50};
        int *ptr1=&arr[0];

        printf("%p\n",ptr1);
        printf("%d\n",*(ptr1++));

        ptr1++;

        printf("%d\n",*(++ptr1));
        printf("%p\n",ptr1);
}
```

6. Draw a correct diagram and Write the output

```
#include<stdio.h>
```

```
        int *ptr=NULL;

    void fun() {
        int x=10;
        ptr = &x;
        printf("%d\n",x);
        printf("%d\n",*ptr);
    }

    void main(){
        int x = 20;
        printf("%d\n",x);
        fun();
        printf("%d\n",*ptr);
    }
```

7. **Draw a correct diagram and Write the output**

```
    #include<stdio.h>

    Void main(){

        int arr[3][3]={11,12,13,14,15,16,17,18,19};

        printf("%d\n",&arr);

        printf("%d\n",arr);

        printf("%d\n",*(arr+0));

        printf("%d\n",*(arr+3));

        printf("%d\n",*(arr+5));

    }
```

8. **Draw a correct diagram and Write the output**

```
#include<stdio.h>
void main(){

    int arr[6] = {1,2,3,4,5,6};
    ++arr[1];
    arr[arr[1]]++;
```

```
        arr[arr[arr[1]]]++;
//what will become the original array?
        for(int i=0;i<6;i++){

                printf("%d ",arr[i]);
        }
}
```

9. Create a 2D array and take the input of elements from the user & Print using a pointer. Draw a correct diagram and Write the output

10. Create a 3D array and take the input of elements from the user & Print using a pointer. Draw a correct diagram and Write the output

11. WAP to print 2nd largest element in the array. Print using Pointer

12. WAP to print addition of both diagonal elements using pointer without repeating the middle element

13. WAP to print different datatype of elements using Void pointer
    int , char , float , double