Function with array and pointer with type_3

1. Find maximum and minimum element of array?

```
#include<stdio.h>
void MIN (int *,int);
void Max(int*,int);
void main()
{
                                        int s,i;
                                        int mm[20];
                                        int c;
                                        printf("how many number you enter :   ");
                                        scanf("%d",&s);

                                         for(i=0;i<s;i++)
                                        {
                                                printf("\nEnter the %d) value :   ",i);
                                                scanf("%d",&mm[i]);
                                        }
                                        printf("\n what u want to choose:  \n1 Max     \n2  Min \n type here :
");
                                        scanf("%d",&c);

                                        if(c == 1)
                                        {
                                        MAX(mm,s);
                                        }else{
                                        MIN(mm,s);
                                        }

}

void MAX (int* mm,int s)
{
        int i;
        int max=0 ;
                                                for(i=0;i<s;i++)
                                        {
                                                if(mm[i]>max)
                                                {
                                                        max=mm[i];
```

```
                    }
                }
                printf("max number is : %d \n",max);
}

void MIN (int* mm , int s)
{
        int i;
        int min;
                    for(i=0;i<s;i++)
                {
                    if(mm[i]<min)
                    {
                        min=mm[i];
                    }
                }
                printf("minimum number is : %d \n",min);
}
```

2. Accept the element of array from user and sum all the element ?

```
#include <stdio.h>
 void add(int* ,int );
void main()
{
        int a[4];
        int ans;
        int i;
        printf(":\n Enter the any two value for addtion : \n");
        for(i=0;i<=4;++i)
        {
            printf("\nEnter number %d :  " ,i);
            scanf("%d",&a[i]);

        }
        add(a,5);
 }

 void add(int*a,int t )
 {
  int ans;
        int i;
  for(i=0;i<t;++i)
```

```
 {
                    ans = ans  + a[i];

 }
        printf("Addition is :  %d \n",ans );
}
```

3.Find all odd or even number from array?

```
#include <stdio.h>
void evenodd(int*,int);
void main()
{       int i;
        int arr[10];
        int s;
        printf("how many number you enter :   ");
                                scanf("%d",&s);

                                 for(i=0;i<s;i++)
                                {
                                        printf("\nEnter the %d) value :   ",i);
                                        scanf("%d",&arr[i]);
                                }

        oddeven(arr,s);
}

void oddeven(int* arr,int t)
{
        int i;


                    for(i=0;i<t;i++)
        {
         printf("\nEven numbers in the array are :     ");
    for (i = 0; i < t; i++)
    {
       if (arr[i] % 2 == 0)
       {
          printf("%d \t", arr[i]);
       }
    }

    printf("\n Odd numbers in the array are :     ");
```

```
    for (i = 0; i <t; i++)
    {
       if (arr[i] % 2 != 0)
       {
          printf("%d \t", arr[i]);
       }
    }

        }
}
```

4. Find all prime number in array

```
#include <stdio.h>
void prime(int* ,int );
void main()
{
        int arr[10];
        int i,s;
        printf("how many number you enter :   ");
                                scanf("%d",&s);

                                 for(i=0;i<s;i++)
                                {
                                        printf("\nEnter the %d) value :   ",i);
                                        scanf("%d",&arr[i]);
                                }


        prime(arr,s);
}

void prime(int* arr ,int s )
{
        int i;

                for(i=0;i<s;i++)
        {
                                int j=2;
                int flag = 1 ;
                                while (j < arr[i]) {
                                 if (arr[i] % j == 0) {
                                    flag = 0;
                                    break;
```

```
                }
                j++;
            }
            if (flag == 1) {
                printf("\tPrime number is :  %d \n", arr[i]);
            }
                    else{

                            printf("\tNon-prime is:  %d \n",arr[i]);
                    }
        }
}
```

5 Create two arryas of integers. Add following Method
a. Accept the data for an array.
b. Display data of the array.
c. summation of two array.

```
void sumation(int* , int* , int* ,int,int,int);

void main()
{
        int arr[5];
        int brr[5];
        int crr[5];
        int ans;
        int i;
        printf("\n Array 1 :  Enter the any two value for addtion :  ");

        for(i=0;i<=4;i++)
        {
                        printf("\nEnter %d number   :  ",i);
                        scanf("%d",&arr[i]);
                        ans = ans  + arr[i];
        }
        printf("\n Array 1 :  value is here \n");

        for(i=0;i<5;i++)
        {
                        printf("\n arr[%d] :  %d  \n",i,arr[i]);
        }

        printf("\n Array 2 :  value is here \n");
```

```
	for(i=0;i<=4;i++)
	{
			printf("\nEnter %d number   :  ",i);
			scanf("%d",&brr[i]);
			ans = ans  + brr[i];
	}

	for(i=0;i<5;i++)
	{
			printf("\n brr[%d] :  %d  \n",i,brr[i]);
	}

	sumation(arr,brr,crr,5,5,5)	;

}




void sumation(int* arr, int* brr, int* crr ,int t , int x ,int y)
{
	int i;

	printf("\n summation of array is: \n");

	for(i=0;i<t;i++)
  {
			crr[i] = arr[i] + brr[i];
			printf("\n c[%d] : %d \n",i,crr[i]);
	}
}
```

6. Write program to create an array of integers and perform following operations on that array like finding the sum,average,maximum and minimum number in that array.accept the number of the array from user.

```
#include <stdio.h>
void add(int*,int);
void MIN (int *,int);
void Max(int*,int);
void avg(int*, int);
```

```
void main ()
{
	int in[5];
	int i;
	int a[1];
	int m;
	int ans;
	printf("\t Menu is \n 1  Sum    \n 2  Max and  min     \n 3  avg    \n ");
	scanf("%d",&m);


	if(m==1){
		printf("\n Addtition program start :\n ");
			printf(":\n Enter the any two value for addtion : \n");
				for(i=0;i<=1;i++)
				{
					printf("\nEnter number :  ");
					scanf("%d",&a[i]);
				}
			add(a,1);
	}
	else
	{
	 if(m==2){

					int s,i;
					int mm[20];
					int c;
					printf("how many number you enter :   ");
					scanf("%d",&s);

					 for(i=0;i<s;i++)
					{
						printf("\nEnter the %d) value :   ",i);
						scanf("%d",&mm[i]);
					}
					printf("\n what u want to choose:  \n1 Max     \n2  Min \n type here :
");
					scanf("%d",&c);

					if(c == 1)
					{
```

```
                    MAX(mm,s);
                    }else{
                    MIN(mm,s);
                    }

        }else
                {
                if(m==3){
                                        int arr[5];

                                        int i, n;

                                        printf("how many number u will enter : ");
                                        scanf("%d", &n);



                                        for(i=0; i< n; i++)
                                        {
                                                printf("\nEnter %d numbers:  ",i);
                                         scanf("%d",&arr[i]);
                                        }

                                        avg(arr,n);



                }else{
                        printf("\n invalid option ");
                }

        }

 }
}
```

```
void add(int* a, int t )
{	int ans;
	int i;
		for(i=0;i<=t;i++)
		{
		ans = ans  + a[i];
		}
			printf("Addition is :  %d \n",ans );

}


void MAX (int* mm,int s)
{
	int i;
	int max=0 ;
					for(i=0;i<s;i++)
				{
					if(mm[i]>max)
					{
						max=mm[i];
					}
				}
				printf("max number is : %d \n",max);
}

void MIN (int* mm , int s)
{
	int i;
	int min;
					for(i=0;i<s;i++)
				{
					if(mm[i]<min)
					{
						min=mm[i];
					}
				}
				printf("minimum number is : %d \n",min);
}
```

```
void avg(int* arr, int n)
{
                                                    int sum=0, avg;
                                                     int i;
                                                     for(i=0; i< n; i++)
                                                     {
                                                      sum = sum + arr[i];
                                                     }


                                                     avg = sum/n;


                                                     printf("Sum is %d\n", sum);
                                                     printf("Average is %d", avg);
}
```

7.searching number

```
#include<stdio.h>
void search (int*,int);
void main()
{
        int n;
        int a[n];
         int i ;
                printf("enter the array number :  ");
                scanf("%d",&n);

                for(i=0;i<n;i++)
                {
                        printf(" \n array element is ");
                        scanf("%d",&a[i]);
                }
```

```
		for( i=0;i<n;i++)
		{
			printf("%d ",a[i]);
		}

	search(a,n);
}

void search (int* a, int n)
{	int j;
int flag = 0;
int i;
	int find[j];
	printf("\n\nEnter a number which u want to search  :  ");
		scanf("%d",&find[j]);

	 for(i=0;i<n;i++)
	 {
		if(find[j] ==  a[i])
		{

				flag = 1;

		 }

	}

	if(flag==1){
		printf("\n Number Found :  %d  ",find[j]);
	}else{
		printf(" Number not found ");
	}


}
```