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                                          Assignment: 3
Q1)
#include<stdio.h>
void sum(int a[3],int b[3])
int *ptr1 = &a[0];
int *ptr2 = &b[0];
int z=((*(ptr1))+(*(++ptr1))+(*(++ptr1)));
int x=((*(ptr2))+(*(++ptr2))+(*(++ptr2)));
int c=z+x;
printf("sum of array elements :%d \n",c);
int main()
int a[3]=\{10,20,30\};
int b[3]=\{5,15,25\};
sum(a,b);
}
```

```
sum of array elements :105
Process returned 0 (0x0) execution time : 0.005 s
Press any key to continue.
```

```
Q2)
#include<stdio.h>
void sum(int a[5],int b[5])
{
```

```
 \begin{array}{l} \text{int *ptr1 = \&a[0];} \\ \text{int *ptr2 = \&b[0];} \\ \text{int $z$=((*(ptr1))+(*(++ptr1))+(*(++ptr1))+(*(++ptr1))+(*(++ptr1)));} \\ \text{int $x$=((*(ptr2))+(*(++ptr2))+(*(++ptr2))+(*(++ptr2))+(*(++ptr2)));} \\ \text{int $x$=(z+x;} \\ \text{printf("sum of array elements : %d \n",c);} \\ \text{int main()} \\ \{ \\ \text{int a[5],b[5];} \\ \text{printf("Enter elements in array 1 You can add only 5 elements: \n");} \\ \text{for(int $i$=0;i<5;i++)} \\ \{ \\ \text{scanf("%d",&a[i]);} \\ \} \\ \text{printf("Enter elements in array 2 You can add only 5 elements: \n");} \\ \text{for(int $i$=0;i<5;i++)} \\ \{ \\ \text{scanf("%d",&b[i]);} \\ \} \\ \text{sum(a,b);} \\ \} \\ \\ \end{array}
```

```
Enter elements in array 1 You can add only 5 elements:
4
1
2
3
5
Enter elements in array 2 You can add only 5 elements:
1
2
3
4
5
sum of array elements :30
Process returned 0 (0x0) execution time : 22.627 s
Press any key to continue.
```

```
Q3)
#include<stdio.h>
void sum(int m,int n)
{
int a[m],b[n];
```

```
printf("Enter elements in array 1: \n");
for(int i=0;i<m;i++)
scanf("%d",&a[i]);
printf("Enter elements in array 2: \n");
for(int i=0;i< n;i++)
scanf("%d",&b[i]);
int *ptr1 = &a[0];
int *ptr2 = \&b[0];
int z=0, x=0;
for(int i=0;i< m;i++)
{
z=*ptr1+z;
*ptr1++;
printf("sum of arr1: %d \n",z);
for(int i=0;i< n;i++)
{
x=*ptr2+x;
*ptr2++;
printf("sum of arr2: %d \n",x);
int c=z+x;
printf("sum of array elements :%d \n",c);
int main()
int n,m;
printf("Enter number of elements in array 1: \n");
scanf("%d",&m);
printf("Enter number of elements in array 2: \n");
scanf("%d",&n);
sum(m,n);
```

```
Enter number of elements in array 1:
3
Enter number of elements in array 2:
5
Enter elements in array 1:
1
2
3
Enter elements in array 2:
4
Enter elements in array 2:
4
5
6
7
8
sum of arr1: 6
sum of arr2: 30
sum of array elements :36
Process returned 0 (0x0) execution time : 20.151 s
Press any key to continue.
```

```
Q4)
#include<stdio.h>
void sum(int m)
int a[m],b[m];
printf("Enter elements in array 1: \n");
for(int i=0;i< m;i++)
{
scanf("%d",&a[i]);
printf("Enter elements in array 2: \n");
for(int i=0;i< m;i++)
scanf("%d",&b[i]);
int *ptr1 = &a[0];
int *ptr2 = \&b[0];
int z=0, x=0;
for(int i=0;i< m;i++)
z=*ptr1+*ptr2+z;
*ptr1++;
*ptr2++;
}
for(int i=0;i< m;i++)
```

```
int *ptr3= &a[i];
int *ptr4= &b[i];
x=*ptr3+*ptr4;
printf("sum of %d elements of both the array: %d \n",i+1,x);
}
printf("sum of array elements :%d \n",z);
}
int main()
{
int n,m;
printf("Enter number of elements in both array: \n");
scanf("%d",&m);
sum(m);
}
```

```
Enter number of elements in both array:

Enter elements in array 1:

4

7

8

9

Enter elements in array 2:

1

4

2

4

6

sum of 1 elements of both the array: 2

sum of 2 elements of both the array: 8

sum of 3 elements of both the array: 9

sum of 4 elements of both the array: 12

sum of 5 elements of both the array: 15

sum of array elements :46

Process returned 0 (0x0) execution time: 13.363 s

Press any key to continue.
```