ASSIGNMENT 16

Q1. Write a program to display sum of an array.

```
Code:
#include <stdio.h>
int main()
     int i, *ptr, sum=0, arr[5]={2,4,6,8,0};
ptr = arr;
    for(i=0;i<5;i++)
sum+=*(ptr+i);
printf("Sum = %d",sum);</pre>
```

Output:

Sum = 20

Q2. Write a program to display sum of 2 numbers.

Code:

```
#include <stdio.h>
int main()
{
   int a,b,sum,*p,*q;
   printf("Enter Number 1: ");
   scanf("%d",&a);
   printf("Enter Number 2: ");
   scanf("%d",&b);

   p=&a;
   q=&b;
   sum= *p + *q;

   printf("Sum of numbers: %d",sum);
   return 0;
}
```

Output:

Enter Number 1: 2 Enter Number 2: 4 Sum of numbers: 6

Q3. Write a program to swap 2 numbers.

Code:

```
#include <stdio.h>
int main()
{
    int a,b,*p,*q,temp;
    printf("Enter Number 1: ");
    scanf("%d",&a);
    printf("Enter Number 2: ");
    scanf("%d",&b);

    printf("Before Swapping\na = %d\nb = %d\n", a, b);

    p=&a;
    q=&b;

    temp = *q;
    *q = *p;
    *p = temp;

    printf("After Swapping\na = %d\nb = %d", *p, *q);
    return 0;
}
```

Output:

```
Enter Number 1: 3
Enter Number 2: 5
Before Swapping
a = 3
b = 5
After Swapping
a = 5
b = 3
```

Q4. Write a program to display greater of 2 numbers.

Code:

```
#include <stdio.h>
int main()
{
    int a, b, *p, *q;

    printf("Enter Number 1: ");
    scanf("%d",&a);
    printf("Enter Number 2: ");
    scanf("%d",&b);

    p = &a;
    q = &b;

    if(*p > *q)
    printf("Maximum number: %d", *p);
    else
    printf("Maximum number: %d", *q);
    return 0;
}
```

Output:

Enter Number 1: 5
Enter Number 2: 3
Maximum number: 5

Q4. Write a program to display the middle integer.

Code:

Output:

```
Enter number 1: 3
Enter number 2: 6
Enter number 3: 5
Enter number 4: 4
Enter number 5: 1

Ascending order:
1 3 4 5 6
Middle Number: 4
```