```
/*1. Write a program to calculate the sum of numbers stored in an array of size 10. Take
array values from the user.*/
#include<stdio.h>
int main(){
    int a[10],i,sum=0;
    printf("Enter a 10 number\n");
    for(i=0;i<=9;i++)
    {
        scanf("%d",&a[i]);
        sum=sum+a[i];
    }
    printf("the sum of the number is %d",sum);
    printf("\n");
    return 0;
}</pre>
```

```
/*2. Write a program to calculate the average of numbers stored in an array of size 10.
Take array values from the user.*/
#include<stdio.h>
int main()
{
   int a[10],i,sum=0;
   float avg;
   printf("Enter a 10 number \n");
   for(i=0;i<=9;i++)
   {
      scanf("%d",&a[i]);
      sum=+a[i];
      avg=sum/10.0;
}
printf("the avg of a number is %f",avg);</pre>
```

```
printf("\n");
return 0;
}
```

```
/*3. Write a program to calculate the sum of all even numbers and sum of all odd
numbers, which are stored in an array of size 10. Take array values from the user.*/
#include<stdio.h>
int main (){
    int a[10],i,sumodd=0,sumeven=0;
    printf("enter a 10 number \n");
    for(i=0;i<=9;i++)
    {
        scanf("%d",&a[i]);
        if(a[i]%2==0)
        sumeven=sumeven+a[i];
        else
        sumodd=sumodd+a[i];
    }
    printf("the sum of odd number is %d\n",sumodd);
    printf("the sum of even number is %d\n",sumeven);
    printf("\n");
    return 0;
}</pre>
```

```
/*4. Write a program to find the greatest number stored in an array of size 10. Take array
values from the user.*/
#include<stdio.h>
int main (){
   int a[10],i;
   printf("enter a 10 number \n");
   for(i=0;i<=9;i++)
   {
      scanf("%d",&a[i]);</pre>
```

```
if(a[i]>a[i-1])
    a[i-1]==a[i];

}
printf("the greatest number in array is %d",a[i-1]);
printf("\n");
return 0;
}
```

```
#include<stdio.h>
int main (){
   int a[10],i;
printf("enter a 10 number \n");
for(i=0;i<=9;i++)</pre>
        scanf("%d",&a[i]);
        a[i]!=a[0];
  printf("the smallest number in array is %d",a[0]);
#include<stdio.h>
int main (){
  int a[10],temp;
  printf("Enter a 10 number\n");
  for(int i=0;i<=9;i++)
   scanf("%d",&a[i]);
   for(int i=0;i<=9;i++)</pre>
    for(int j=i+1;j<=9;j++)</pre>
        if(a[i]>a[j])
            temp=a[i];
            a[i]=a[j];
            a[j]=temp;
  printf("array element ");
  for (int i = 0; i <=9; i++)
    printf("%d\n",a[i]);
#include <stdio.h>
  int a[10],i,largest,second;
   printf("Enter a number \n");
   for(i=0;i<=9;i++)</pre>
    scanf("%d",&a[i]);
```

```
if(a[0] > a[1]) {
    largest = a[0];
    second = a[1];
}
```

```
for(i = 2; i<=9; i++)
{
    if( largest < a[i] )
    {
        second = largest;
        largest = a[i];
    }
    else if( second < a[i])
        {
            second = a[i];
    }
}</pre>
```

printf("Largest - %d \nSecond - %d \n", largest, second);

```
#include<stdio.h>
int main ()
   printf("enter a array number");
    scanf("%d",&n);
   int a[n];
    printf("Enter a %d number\n",n);
        scanf("%d",&a[i]);
    int temp;
        for(int j=i+1;j<n;j++)</pre>
            if(a[i] < a[j])
                temp=a[i];
                a[i]=a[j];
                a[j]=temp;
   printf("The smallest second element is %d",a[n-2]);
   return 0;
#include<stdio.h>
int main(){
    printf("Enter a array size\n");
    scanf("%d",&n);
   int a[n];
   printf("Enter a n number for array\n");
    scanf("%d",&a[i]);
    for (int i = 0; i < n/2; i++)
    { int temp;
    temp=a[i];
    a[i]=a[n-i-1];
```

```
a[n-i-1]=temp;
             printf("%d\n",a[i]);
return 0;
#include <stdio.h>
int main()
   int length;
    int arr1[length],arr2[length];
    printf("Enter a array size\n");
    scanf("%d",&length);
    printf("Enter a n number for array\n");
    for (int i = 0; i < length; i++)
    scanf("%d",&arr1[i]);
    for (int i = 0; i < length; i++) {</pre>
        arr2[i] = arr1[i];
    //Displaying elements of array arr1
printf("Elements of original array: \n");
    for (int i = 0; i < length; i++) {</pre>
        printf("%d ", arr1[i]);
    printf("Elements of new array: \n");
    for (int i = 0; i < length; i++) {
    printf("%d ", arr2[i]);</pre>
```