

Q1:-

```
#include<stdio.h>
int main()
{
    int a[10],i,sum=0;
    printf("Enter a number:\n");
    for(i=0; i<10; i++){
        scanf("%d",&a[i]);
        sum=sum+a[i];
    }
    printf("Sum is %d",sum);
    return 0;
}
```

Q2:-

```
#include<stdio.h>
int main()
{
    int a[10],i,sum=0;
    float avg;
    printf("Enter a number:\n");
    for(i=0; i<10; i++){
        scanf("%d",&a[i]);
        sum=sum+a[i];
    }
    printf("Average is %.3f",avg=sum/10.0);
    return 0;
}
```

Q3:-

```
#include<stdio.h>
int main()
{
    int a[10],i,O_sum=0,E_sum=0;
    printf("Enter a number:\n");
    for(i=0; i<10; i++){
        scanf("%d",&a[i]);
        if(a[i]%2)
            O_sum=O_sum+a[i];
        else
            E_sum=E_sum+a[i];
    }
    printf("Sum of even %d and odd is %d",E_sum,O_sum);
    return 0;
}
```

Q4:-

```
#include<stdio.h>
int main()
{
    int a[10],i,max=0;
    printf("Enter a number:\n");
    for(i=0; i<10; i++){
        scanf("%d",&a[i]);
        if(max<a[i])
            max=a[i];
    }
    printf("Greatest number of an array is %d",max);
    return 0;
}
```

```
}
```

Q5:-

```
#include<stdio.h>
int main()
{
    int a[10],i,min;
    printf("Enter a number:\n");
    for(i=0; i<10; i++){
        scanf("%d",&a[i]);
    }
    min=a[i-1];
    for(i=0;i<10;i++)
    {
        if(min>a[i])
            min=a[i];
    }
    printf("Smallest number of an array is %d",min);
    return 0;
}
```

Q6:-

```
#include<stdio.h>
int main(){
    int len;
    printf("Enter a lenght of an array:\n");
    scanf("%d",&len);
    int a[len],i,j,temp=0;
    printf("Enter a numbers:\n");
    for(i=0;i<len;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<len-1;i++)
    {
        for(j=i+1;j<len;j++)
        {
            if(a[i]>a[j])
            {
                temp=a[i];
                a[i]=a[j];
                a[j]=temp;
            }
        }
    }
    printf("-----\n");
    for(i=0;i<len;i++)
    printf("%d\t",a[i]);
    return 0;
}
```

Q7:-

```
#include<stdio.h>
int main(){
    int len;
    printf("Enter a lenght of an array:\n");
    scanf("%d",&len);
    int a[len],i,j,temp=0;
    printf("Enter a numbers:\n");
    for(i=0;i<len;i++)
```

```

{
    scanf("%d",&a[i]);
}
for(i=0;i<len-1;i++)
{
    for(j=i+1;j<len;j++)
    {
        if(a[i]<a[j])
        {
            temp=a[i];
            a[i]=a[j];
            a[j]=temp;
        }
    }
}
for(i=0;i<len;i++)
{
    if(a[i]>a[i+1])
        printf("Second greatest number is %d",a[i+1]);
    break;
}
return 0;
}

```

Q8:-

```

#include<stdio.h>
int main(){
    int len;
    printf("Enter a lenght of an array:\n");
    scanf("%d",&len);
    int a[len],i,j,temp=0;
    printf("Enter a numbers:\n");
    for(i=0;i<len;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<len-1;i++)
    {
        for(j=i+1;j<len;j++)
        {
            if(a[i]>a[j])
            {
                temp=a[i];
                a[i]=a[j];
                a[j]=temp;
            }
        }
    }
    for(i=0;i<len;i++)
    {
        if(a[i]<a[i+1])
            printf("Second smallest number is %d",a[i+1]);
        break;
    }
    return 0;
}

```

Q9:-

```

#include<stdio.h>
int main(){

```

```

    int len;
    printf("Enter the length of an array:\n");
    scanf("%d",&len);
    int a[len],i;
    printf("Enter a number's:\n");
    for(i=0;i<len;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=len-1;i>-1;i--)
    printf("%d ",a[i]);
    return 0;
}

```

Q10:-

```

#include<stdio.h>
int main(){
    int num;
    printf("Enter a length of an array:\n");
    scanf("%d",&num);
    int a[num],i,b[num];
    printf("Enter the numbers:\n");
    for(i=0;i<num;i++)
    {
        scanf("%d",&a[i]);
        b[i]=a[i];
    }
    printf("Another array value ");
    for(i=0;i<num;i++)
    printf("%d ",b[i]);
    return 0;
}

```