1. WAP to find out the sum of two matrix of order 2X2. [10]

```c
#include<stdio.h>
#include<conio.h>
void main()
{
int a[2][2],b[2][2],c[2][2],i,j;
printf("Enter the elements of first matrix");
for(i=0;i<2;i++)
{
for(j=0;j<2;j++)
{
scanf("%d",&a[i][j]);
}
}
printf("Enter the elements of second matrix");
for(i=0;i<2;i++)
{
for(j=0;j<2;j++)
{
scanf("%d",&b[i][j]);
}
}
printf("Sum of two matrix is");
for(i=0;i<2;i++)
{
for(j=0;j<2;j++)
{
c[i][j]=a[i][j]+b[i][j];
printf("%d",c[i][j]);
}
}
getch();
}
```

Homework-1
2. WAP to find out the subtract of two matrix of order 2X2. [10]

3. WAP to find out the sum of three matrix of order 2X2. [10]

```c
#include<stdio.h>
#include<conio.h>
void main()
{
int a[2][2],b[2][2],c[2][2],d[2][2],i,j;
printf("Enter the elements of first matrix");
for(i=0;i<2;i++)
{
for(j=0;j<2;j++)
{
scanf("%d",&a[i][j]);
}
}
printf("Enter the elements of second matrix");
for(i=0;i<2;i++)
{
for(j=0;j<2;j++)
{
scanf("%d",&b[i][j]);
}
}
printf("Enter the elements of third matrix");
for(i=0;i<2;i++)
{
for(j=0;j<2;j++)
{
scanf("%d",&c[i][j]);
}
}
printf("Sum of three matrix is");
for(i=0;i<2;i++)
{
for(j=0;j<2;j++)
{
d[i][j]=a[i][j]+b[i][j]+c[i][j];
printf("%d",d[i][j]);
}
}
getch();
}
```

Homework-2
4. WAP to find out the subtract of three matrix of order 2X2. [10]

5. WAP to find out the sum of two matrix of order 3X3. [10]

```c
#include<stdio.h>
#include<conio.h>
void main()
{
int a[3][3],b[3][3],c[3][3],i,j;
printf("Enter the elements of first matrix");
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
{
scanf("%d",&a[i][j]);
}
}
printf("Enter the elements of second matrix");
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
{
scanf("%d",&b[i][j]);
}
}
printf("Sum of two matrix is");
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
{
c[i][j]=a[i][j]+b[i][j];
printf("%d",c[i][j]);
}
}
getch();
}
```

Homework-3
6. WAP to find out the subtract of two matrix of order 3X3. [10]

7. WAP to find out the sum of three matrix of order 3X3. [10]

```c
#include<stdio.h>
#include<conio.h>
void main()
{
int a[3][3],b[3][3],c[3][3],d[3][3],i,j;
printf("Enter the elements of first matrix");
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
{
scanf("%d",&a[i][j]);
}
}
printf("Enter the elements of second matrix");
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
{
scanf("%d",&b[i][j]);
}
}
printf("Enter the elements of third matrix");
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
{
scanf("%d",&c[i][j]);
}
}
printf("Sum of three matrix is");
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
{
d[i][j]=a[i][j]+b[i][j]+c[i][j];
printf("%d",d[i][j]);
}
}
getch();
}
```

Homework-4
8. WAP to find out the subtract of three matrix of order 3X3. [10]

9. WAP to find out the transpose matrix of order 2X2.[5]

```c
#include<stdio.h>
#include<conio.h>
void main()
{
int a[2][2],i,j;
printf("Enter the elements of 2x3 matrix");
for(i=0;i<2;i++)
{
for(j=0;j<2;j++)
{
scanf("%d",&a[i][j]);
}
}
printf("The Transpose matrix is");
for(i=0;i<2;i++)
{
for(j=0;j<2;j++)
{
printf("%d",a[j][i]);
}
}
getch();
}
```

10. WAP to find out the transpose matrix of order 2X3.[5]

```c
#include<stdio.h>
#include<conio.h>
void main()
{
int a[2][3],i,j;
printf("Enter the elements of 2x3 matrix");
for(i=0;i<2;i++)
{
for(j=0;j<3;j++)
{
scanf("%d",&a[i][j]);
}
}
printf("The Transpose matrix is");
for(i=0;i<3;i++)
{
for(j=0;j<2;j++)
{
printf("%d",a[j][i]);
}
}
getch();
}
```