

2(A)

```
#include<stdio.h>
void main()
{
    int x[100],y[100],i,j,n,s,k;

    printf("Enter the number of elements ");
    scanf("%d",&n);

    printf("Enter the elements \n");
    for(i=0;i<n;i++)
    {
        scanf("%d",&x[i]);
    }

    printf("Enter the element to delete ");
    scanf("%d",&s);

    for(i=0,j=0;i<n;i++)
    {
        if(x[i]!=s)
        {
            y[j]=x[i];
            j=j+1;
        }
    }

    printf("New array is\n");

    for(k=0;k<j;k++)
    {
        printf("%d\t",y[k]);
    }
}
```

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2(B)

```
#include<stdio.h>
void main()
{
    int n,r=0,x,digit;

    printf("Enter the number ");
    scanf("%d",&n);

    x=n;

    while(n!=0)
    {
        digit=n%10;
        n=n/10;
        r=r*10+digit;
    }

    if(r==x)
        printf("It is a pallindrome");
    else
        printf("It is not a pallindrome");
}
```

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3(A)

```
#include<stdio.h>
float fact(int n)    /*float to increase range of answer*/
{
    float p=1;
    int i;

    for(i=1;i<=n;i++)
        p=p*i;

    return p;
}

void main()
{

    int n,r;
    float ans;

    printf("Enter n and r ");
    scanf("%d%d",&n,&r);

    ans=fact(n)/(fact(r)*fact(n-r));

    printf("Ans=%f",ans);
}
```

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4(A)

```
#include<stdio.h>
#include<string.h>
struct details
{
    char fname[20];
    char mname[20];
    char sname[20];
};

struct dob
{
    int dd,mm,yyyy;
};

struct patient
{
    struct details name;
    struct dob date;
    char disease[60];
};

void main()
{
    struct patient x[100];
    int i,n;
    char s[60];

    printf("Enter the number of patients ");
    scanf("%d",&n);

    for(i=0;i<n;i++)
    {
        printf("Enter first name ");
        scanf("%s",x[i].name.fname);

        printf("Enter middle name ");
        scanf("%s",x[i].name.mname);

        printf("Enter surname ");
        scanf("%s",x[i].name.sname);

        printf("Enter date of birth then month and then year ");
        scanf("%d%d%d",&x[i].date.dd,&x[i].date.mm,&x[i].date.yyyy);

        printf("Enter the disease ");
```



```
    fflush(stdin);
    gets(x[i].disease);
}

printf("Enter the disease to search ");
fflush(stdin);
gets(s);

for(i=0;i<n;i++)
{
    if(strcmpi(x[i].disease, s)==0)
    {
        printf("%s %s %s %d-%d-%d\n",x[i].name.fname,
x[i].name.mname,x[i].name.sname,x[i].date.dd,x[i].date.mm,x[i].date.yyyy);
    }
}
}
```



4(B)

```
#include<stdio.h>
void main()
{
    int x[100][100],i,j,m,n,t;

    printf("Enter number of rows and columns ");
    scanf("%d%d",&m,&n);

    printf("Enter the matrix \n");

    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        {
            scanf("%d",&x[i][j]);
        }
    }

    for(j=0;j<n;j++)
    {
        for(i=0;i<n;i++)
        {
            if(i<j)
            {
                t=x[i][j];
                x[i][j]=x[j][i];
                x[j][i]=t;
            }
        }
    }

    printf("Transpose is \n");
    for(j=0;j<m;j++)
    {
        for(i=0;i<n;i++)
        {
            printf("%d\t",x[j][i]);
        }
        printf("\n");
    }
}
```

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6(A)

```
#include<stdio.h>
void main()
{
    float sum=0,term1=1,term2=2;
    int i,n,s;

    printf("Enter the number of terms ");
    scanf("%d",&n);

    s=1;
    for(i=1;i<=n;i++)
    {
        sum=sum+s*term1/term2;
        term1=term1+2;
        term2=term2+2;
        s=s*-1;
    }

    printf("Sum=%f\n",sum);
}
```



6(B)

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