

1. Write down the output of the following C program

```
#include <stdio.h>
typedef struct dt
{
int dd,mm,yy;
}dob;
int main()
{
dob p,*r;
int a,*q;
q=&p.mm;
r=&p;
r->mm=7;
*q=5;
p.dd=23;
r->yy=2015;
r->dd=20;
printf("x=%d y=%d z=%d\n",p.dd,p.mm,p.yy);
p.mm=9;
a=*q+r->mm+p.mm;
printf("w=%d\n",a);
return 0;
}
-----
x=      y=      z=
w=
-----
```

2. The following C statements are part of a C program. Write down the output.

```
i. int a=1,b=2,c=3;
int *p,*q,**r;
p=&a;
r=&q;
q=&c;
a=*q+**r;
printf("x=%d y=%d z=%d\n",**r,*p,*q);
*r=p;
a=*q+**r;
printf("w=%d\n",a);
-----
x=      y=      z=
w=
-----
```

```

ii. int a[3][4]={{1,2,3,4},{7,8,9,10},{1,2,3,4}};
    int *p,**q;
    q=&p;
    p=a[1]+1;
    printf("x=%d y=%d\n",p[1]**q);
    printf("u=%d v=%d\n",*(*(a+2)-1),*(p+3));
    printf("r=%d\n",*(a+1)+4);

```

```

-----
x=    y=
u=    v=
r=
-----

```

```

iii. char *p="A for Apple";
    char q[15]="B for Ball";
    printf("x=%c y=%c\n",*(p+10)-2,*(&q[4]-2));
    printf("u=%c v=%c w=%d\n",p[8],*q+8,8[p]-q[8]);

```

```

-----
x=    y=
u=    v=    w=
-----

```

3. The output of the program is **5 4 4 0 5 10**. The program uses a single function **achnge**. Complete the function.

```

#include <stdio.h>
//write the function prototype here
int main()
{int a[5]={5,4,3,2,1},n=5,m,i;
m=achnge(a+3); //function called here
for(i=0;i<n;i++)
{
    printf("%d ",a[i]);
}
printf("%d\n",m);
return 0;
}
//write the function here

```