```
x2=p2->px;
                    y2=p2->py;
                    z2=p2->pz;
                    cf2=p2->cf:
                    if(x1==x2 && y1==y2 && z1==z2)break:
                    p2=p2-next;
             if(p2!=h2)
                    cf=cf1+cf2:
                    p2->flag=1:
                    if(cf!=0)
                    h3=insert_rear(cf,x1,y1,z1,h3);
              }
             else
                     h3=insert_rear(cf1,x1,y1,z1,h3);
                     p1=p1->next;
      p2=h2->next;
      while(p2!=h2)
              if(p2->flag==0)
              h3=insert_rear(p2->cf,p2->px,p2->pv.p2->pz,h3);
              p2=p2->next;
    return h3;
void evaluate(node *head)
       node *p;
       int x, y, z;
       int result=0;
       p=head->next;
       printf("\nEnter x,y,z terms to evaluate:\n");
     scanf("%d%d%d",&x,&y,&z);
     while(p!= head)
       result = result + (p->cf * pow(x.p->px) * pow(y,p->py) * pow(z,p->pz));
       p=p->next;
       printf("Polynomial result is: %d", result);
```

```
void main()
       node *h1,*h2,*h3;
        int ch:
       h1=getnode();
       h2=getnode();
        h3=getnode();
        h1->next=h1;
        h2 - next = h2;
        h3 - next = h3;
        while(1)
        {
                printf("\n\n1.Evaluate polynomial\n2.Add two polynomials\n3.Exit\n");
                printf("Enter your choice: ");
                scanf("%d", &ch);
                switch(ch)
                        case 1: h1->next=h1;
                               printf("\nEnter polynomial to evaluate:\n");
                               h1=read poly(h1);
                               printf("The polynomial is :");
                               display(h1);
                               evaluate(h1);
                               break:
                       case 2: h1 - next = h1;
                               printf("\nEnter the first polynomial:\n");
                               h1=read poly(h1);
                               printf("\nEnter the second polynomial:\n");
                               h2=read_poly(h2);
                               h3=add poly(h1,h2,h3);
                               printf("\nFirst polynomial is: ");
                               display(h1);
                               printf("\nSecond polynomial is: ");
                               display(h2);
                               printf("\nThe sum of 2 polynomials is: \n");
                               display(h3);
                       case 3: exit(0);
                       default:printf("\nInvalid entry");
                               break:
                }
       }
```

}