Algorithm for adding the polynomial:-

```
Node add-poly(Node h1, Node h2, Node h3)
{
Node p1,p2;
Int cf1, px1, py1,pz1;
p1=h1→ link
While(p1!=h1)
{
Cf1=p1 → cf1, px1=p1→px ,py1=p1→ py, pz1=p1→ pz;
P2=h2→link;
While(p2!=h2)
{
Cf2=p2→cf, px2=p2→px ,py2=p2→py  , pz2=p2→ pz;
If(px1==px2&&py1==py2&&pz1==pz2)
{
Sum=cf1+cf2;
If(sum!=0)
{
h3=insert rear(h3,sum,px1,py1,pz1);
P2→ flage=1;
break;
}
P2=p2→link;
}
If(p2==h2)
h3=insert rear (h3,cf1,px1,py1,pz1)
P1=p1→ link;
}
P2=h2→ link;
While(p2!=h2)
{
If(p2 →flage==0)
{
h3=insert rear (h3,p2→cf, p2 →px , p2→py ,p2→pz);
P2=p2→link;
}
Return h3;
}
```