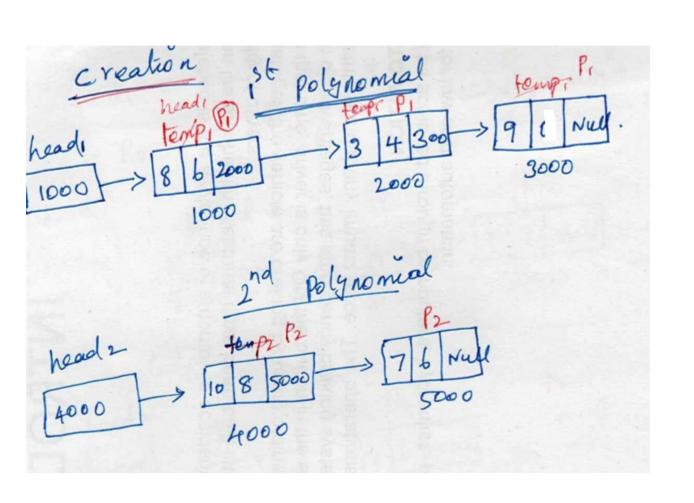
Creation of node

```
void create(struct link *node)
char ch;
do
{
 printf("enter 1st polynomial");
 temp1==(struct link*)malloc(sizeof(struct link));
 printf("\n enter coeff:");
 scanf("%d",&temp1->coeff);
 printf("\n enter exp:");
 scanf("%d",&temp1->exp);
 temp1->next=NULL;
if(head1== null)
head1=temp1;
p1=temp1;
else
p1->next=temp1;
p1=temp1;
printf("\n continue(y/n):");
scanf("%c",&ch);
while(ch=='y' || ch=='Y');
}
```



Display

```
void show(struct link *node)
{
p1=head1;
printf(display 1<sup>st</sup> polynomial");
  while(p1!=NULL)
  {
  printf("%dx^\%d",p1->coeff,p1->exp);
  p1=p1->next;
  if(p1!=NULL)
  printf("+");
  }
}
```

```
Display 1st polynomial

P_1 \Rightarrow 8\pi nb + 3\pi n4 + 9\pi no (8\pi + 3\pi^4 + 9\pi)

P_2 \Rightarrow 10\pi n8 + 7\pi nb (10\pi^8 + 7\pi^6).
```

Addition of two polynomial

```
void polyadd()
p1=head1;
p2=head2;
  while(p1!=null && p2!=null)
  if(p1->exp==p2->exp)
   printf(%dx^{d}",p1->coeff-p2->coeff,p1->exp);
p1=p1->next;
p2=p2->next;
else if(p1->exp > p2->exp)
p1=p1->next;
else
printf(%d x^{\wedge} %d", p2->coeff,p2->exp);
p2=p2->next
if(p1!=null || p2!null)
printf("+");
while(p1!=null )
printf((%d x \wedge %d", p1->coeff,p1->exp);
p1=p1->next;
if(p1!=null )
printf("+");
```

```
}
while(p2!=null )
{
printf((%d x^ %d", p2->coeff,p2->exp);
p2=p2->next;
if(p2!=null )
printf("+");
}
}
```

Addition two polynomial => $P_3 = 1000 + 1500 + 300 + 900$ $P_1 = 8x^{6} + 3x^{4} + 9x$ $P_2 = 10x^{8} + 3x^{6}$ P3=10x4+15x+3x+9x P3 = 10218+15216+3214+921

