EXERCISE 9

PROG (1) <u>AIM</u>: -Write a c program to implement a hash table with collision resolution techniques.

SOURCE CODE:-

```
#include<stdio.h>
#include<conio.h>
int a[10], size;
int hashfunction(int e)
      int key;
      key=e%size;
      if(a[key] = = 0)
            return key;
      else
            if(size==key)
                   printf("hash table is FULL");
                   return -1;
            else
            hashfunction(e+1);
      return 0;
void main()
      int i,j,element;
      clrscr();
      printf("enter size of hash table");
      scanf("%d",&size);
      for(i=0; i \le size; i++)
            a[i]=0;
      for(i=0; i \le size; i++)
            printf("enter element to insert");
```

```
scanf("%d",&element);
    j=hashfunction(element);
    a[j]=element;
}
printf("values in hash Table are\n");
for(i=0; i<size; i++)
    printf("%d\n",a[i]);
getch();
}</pre>
```

OUTPUT:-

```
enter size of hash table5
enter element to insert6
enter element to insert5
enter element to insert7
enter element to insert8
enter element to insert9
values in hash Table are
5
6
7
8
```