Experiment No:-Absolute Loader

Aim: Implement absolute loader in a programming

Algorithm

1. Start

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- 2. Read the program name from user
- 3. Open file object lode. txt
- 4. Verify the name in object tode and user entered name.
- 5. While not end of object program file do
 - 1 read the record
 - 2. Check if record To] equal to 'T' then
 - 1. text Address [i] = record[i]
 - 2 increment i and j by one
 - 3. text Address[6]=110'
 - H. Address a = Strtol (text Address, NULL, 16)
 - 5. Sel 1=12
 - 6. While record [i] not equal to '9' do
 - 1. If record [i] not equal to in then
 - 1. Display address D, record Ti) record Ti+1)
 - 2. Set i=i+2
 - 2. else i= i+1
- 6. Close the file
- 7. Stop

Result: Program to implement absolute loader executed successfully and output obtained.

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PROGRAM

```
#include<stdio.h>
#include<stdbool.h>
#include<stdlib.h>
void main(){
        bool flag=false;
        int i,address;
        char line[100],objname[6],name[20],start[50];
        FILE *objcode=fopen("objcode.txt","r");
        fscanf(objcode,"%s",line);
        printf("Enter program name: ");
        scanf("%s",name);
        for(i=0;i<6\&\&name[i]!=NULL;i++){}
                objname[i]=line[i+2];
                if(name[i]!=line[i+2]){
                        flag=true;
                        break:
         objname[i]=NULL;
         if (flag){
                 printf("Program name mismatch\n");
                 return;
         printf("name from obj: %s\n",objname);
         for (i=9;i<15;i++){
                 start[i-9]=line[i];
          start[i]='\0';
          address=atoi(start);
          fscanf(objcode,"%s",line);
          while(line[0]=='T'){
                 for (i=12; line[i]!=NULL; i+=2){
                        if (line[i]=='^')
                               i++:
                        printf("%d %c%c\n",address++,line[i],line[i+1]);
                 fscanf(objcode,"%s",line);
          filose (objecte)
```

INPUT

H^TEST**^002000^000023

 $T^{002000^{2}6^{000005^{5}a^{3}32006^{4}42000^{5}32009^{5}72010}$

E^002000

OUTPUT

Enter program name: TEST

name from obj: TEST

2000 00

2001 00

2002 05

2003 5a

2004 33

2005 20

2006 06

2007 44

2008 20

2009 00

2010 53

2011 20

2012 09

2013 57

2014 20

2015 10