**Ex NO 1: PROGRAMS USING I/O STATEMENTS AND EXPRESSIONS**

**PROGRAM:**

**#include<stdio.h>**

**#include<conio.h>**

**Void main()**

**{**

**Int a,b,sum;**

**Float avg;**

**Char name[15];**

**Clrscr();**

**Printf(“enter your name:”);**

**Scanf(“%s”,name);**

**Printf(“enter two integer values:”);**

**Scanf(“%d %d”,&a,&b);**

**Sum=a+b**

**Avg=(float)(a+b)/2**

**Printf(“name is =%s\n”,name);**

**Printf(“addition result is=%s\n”,sum);**

**Printf(“average result is=%2f”,avg);**

**getch();**

**}**

**EX.No. : 2 PROGRAM USING DECISION-MAKING CONSTRUCTS**

**PROGRAM:**

**#include <stdio.h>**

**#include<conio.h>**

**void main ()**

**{**

**float basic , da , salary ;**

**int code ;**

**char name[25];**

**da=0.0;**

**printf("Enter employee name\n");**

**scanf("%[^\n]",name);**

**printf("Enter basic salary\n");**

**scanf("%f",&basic);**

**printf("Enter code of the Employee\n");**

**scanf("%d",&code);**

**switch (code)**

**{**

**case 1:**

**10**

**da = basic \* 0.10;**

**break;**

**case 2:**

**da = basic \* 0.15;**

**break;**

**case 3:**

**da = basic \* 0.20; break;**

**default :**

**da = 0;**

**}**

**salary = basic + da;**

**printf("Employee name is\n");**

**printf("%s\n",name);**

**printf ("DA is %f and Total salary is =%f\n",da, salary);**

**getch();**

}

**EX.No. : 3 Leap year checking**

**PROGRAM:**

**#include <stdio.h>**

**#include<conio.h>**

**void main()**

**12**

**{**

**int year;**

**printf("Enter a year \n");**

**scanf("%d", &year);**

**if ((year % 400) == 0)**

**printf("%d is a leap year \n", year);**

**else if ((year % 100) == 0)**

**printf("%d is a not leap year \n", year);**

**else if ((year % 4) == 0)**

**printf("%d is a leap year \n", year);**

**else**

**printf("%d is not a leap year \n", year);**

**}**

**EX.NO: 4 ARITHMETIC OPERATORS**

**PROGRAM:**

**#include <stdio.h>**

**#include<conio.h>**

**{**

**Intb a,b,c,ch,c;**

**Printf(“\n enter the number1:\n”);**

**Scanf(“%d”,&a);**

**Printf(“\n enter the number2:\n”);**

**Scanf(“%d”,&b);**

**Printf(“\n.add\n2.subtract\n3.multiply\n4,divide\n5.square”);**

**Printf(“\n enter the choice:\n”);**

**Scanf(“%d”,&ch);**

**Switch(ch)**

**{**

**Case1:**

**C=a+b;**

**Printf(“\n%d+%d=%d\n”,a,b,c);**

**Getch();**

**Break;**

**Case2:**

**C=a-b;**

**Printf(“\n%d-%d=%d\n”,a,b,c);**

**Getch();**

**Break;**

**Case3:**

**C=a\*b;**

**Printf(“\n%d\*%d=%d\n”,a,b,c);**

**Getch();**

**Break;**

**Case4:**

**C=a/b;**

**Printf(“\n%d|%d=%d\n”,a,b,c);**

**Getch();**

**Break;**

**Case5:**

**C=b\*b;**

**Printf(“\n%d\*%d=%d\n”,a,b,c);**

**Getch();**

**Break;**

**Default;**

**Printf(“\n enter the no.range between1to5”);**

**}**

**}**

**EX.No. : 5 ARMSTRONG NUMBER**

**#include <stdio.h>**

**#include <math.h>**

**void main()**

**{**

**int number, sum = 0, rem = 0, cube = 0, temp;**

**16**

**printf ("enter a number");**

**scanf("%d", &number);**

**temp = number;**

**while (number != 0)**

**{**

**rem = number % 10;**

**cube = pow(rem, 3);**

**sum = sum + cube;**

**number = number / 10;**

**}**

**if (sum == temp)**

**printf ("The given no is armstrong no");**

**else**

**printf ("The given no is not a armstrong no");**

**}**

**EX.No. : 6 Sort the numbers based on the weight.**

**PROGRAM**

**#include <stdio.h>**

**#include <math.h>**

**void main()**

**{**

**int nArray[50],wArray[50],nelem,i,j,t;**

**18**

**clrscr();**

**printf("\nEnter the number of elements in an array : ");**

**scanf("%d",&nelem);**

**printf("\nEnter %d elements\n",nelem);**

**for(i=0;i<nelem;i++)**

**scanf("%d",&nArray[i]);**

**//Calculate the weight**

**for(i=0; i<nelem; i++)**

**{**

**wArray[i] = 0;**

**if(percube(nArray[i]))**

**wArray[i] = wArray[i] + 5;**

**if(nArray[i]%4==0 && nArray[i]%6==0)**

**wArray[i] = wArray[i] + 4;**

**if(prime(nArray[i]))**

**wArray[i] = wArray[i] + 3;**

**}**

**// Sorting an array**

**for(i=0;i<nelem;i++)**

**for(j=i+1;j<nelem;j++)**

**if(wArray[i] > wArray[j])**

**{**

**t = wArray[i];**

**wArray[i] = wArray[j];**

**wArray[j] = t;**

**}**

**for(i=0; i<nelem; i++)**

**printf("<%d,%d>\n", nArray[i],wArray[i]);**

**getch();**

**}**

**int prime(int num)**

**{**

**int flag=1,i;**

**for(i=2;i<=num/2;i++)**

**if(num%i==0)**

**{**

**flag=0;**

**break;**

**}**

**return flag;**

**}**

**int percube(int num)**

**{**

**int i,flag=0;**

**19**

**for(i=2;i<=num/2;i++)**

**if((i\*i\*i)==num)**

**{**

**flag=1;**

**break;**

**}**

**return flag;**

**}**

**EX.No. : 7 Average height of persons**

**#include <stdio.h>**

**#include <conio.h>**

**void main()**

**{**

**int i,n,sum=0,count=0,height[100];**

**float avg;**

**clrscr();**

**printf("Enter the Number of Persons : ");**

**scanf("%d",&n);**

**printf("\nEnter the Height of each person in centimeter\n");**

**for(i=0;i<n;i++)**

**{**

**scanf("%d",&height[i]);**

**sum = sum + height[i];**

**}**

**avg = (float)sum/n;**

**for(i=0;i<n;i++)**

**if(height[i]>avg)**

**count++;**

**printf("\nAverage Height of %d persons is : %.2f\n",n,avg);**

**printf("\nThe number of persons above average : %d ",count);**

**getch();**

**}**

**EX.NO:8 BODY MASS OF THE INDIVIDUALS**

**DATE:**

**# include<strdio.h>**

**# include<conio.h>**

**voidmain()**

**{**

**int index[100];**

**int i,n;**

**float h;**

**clrscr();**

**printf("enter the number of students:");**

**scanf("%d",&n);**

**for(i=0; i<n;i++)**

**{**

**printf("enter the height (cm)and weight(kg) of student%di",i+1);**

**scanf("%D%D",& stu[i][0]& stu[i][1]))**

**h=(float)stu[i][o]/100.0);**

**index[i]=(float)stu[i][1]/float(n\*n);**

**}**

**printf("\nstu.no\t height\tweight\tBNO I\T Height\weight\t bno\t result\n");**

**for(i=0,i<n;i++)**

**{**

**printf("\n%d\td\t%D\t%D\t",i+1,stu[i][0],stu[i][1],index[i]);**

**if(index[i],15)**

**printf("starvation\n");**

**elseif(index[i]>14&&index[i]<18)**

**printf("underweight\n");**

**elseif(index[i]>19&&index[i]<26)**

**printf("healthy\n");**

**elseif(index[i]>25&&index[i]<30)**

**printf("overweight\n");**

**elseif(index[i]>30&&index[i]<36)**

**printf("obese\n");**

**else**

**printf("serve obese\n");**

**}**

**getch();**

**}**

**EX.No. : 9 Reverse of a given stringPROGRAM**

**#include <stdio.h>**

**#include <string.h>**

**#include <conio.h>**

**void swap(char \*a, char \*b)**

**{**

**char t;**

**t = \*a;**

**\*a = \*b;**

**\*b = t;**

**}void main()**

**{**

**char str[100];**

**void reverse(char \*);**

**int isAlpha(char);**

**void swap(char \*a ,char \*b);**

**clrscr();**

**printf("Enter the Given Strigets(str);**

**reverse(str);**

**printf("\nReverse String : %s",str);**

**getch();**

**}**

**void reverse(char str[100])**

**}**

**int r = strlen(str) - 1, l = 0;while (l < r)**

**{**

**if (!isAlpha(str[l]))**

**l++;**

**else if(!isAlpha(str[r]))**

**r--;**

**else**

**{**

**swap(&str[l], &str[r]);**

**l++;**

**r--;**

**}**

**}**

**}**

**int isAlpha(char x)**

**{**

**return ( (x >= 'A' && x <= 'Z') ||**

**(x >= 'a' && x <= 'z') );**

**}**

**EXNO:10 CONVERSIONOFDECIMALNUMBERINTOBASES**

**#include<stdio.h>**

**#include<stdlib.h>**

**void conversion(int num,int base)**

**{ int remainder =num%base;**

**if(num==0)**

**return;**

**conversion(num/base.base);**

**if(remainder<10);**

**printf(“%d”,remainder);**

**else**

**printf(“%c”,remainder-10+’A’);**

**}**

**}**

**}printf(“/n”);**

**}**

**EX:NO:11 A String Operation**

**#include<stdio.h>**

**#define MAX\_SIZE100**

**Void main()**

**{**

**Char str{MAX-SIZE];**

**Int i,words;**

**Printf(“Enter the String”);**

**Gets(str);**

**I=0;**

**Words=1;**

**While(str[i]!=’\0’)**

**{**

**If(str[i]==’’\\str[i]==’\n’\\str[i]==’\t’]**

**{**

**Words++;**

**}**

**I++;**

**}**

**Printf(“Total number of words=%d”,words);**

**getch();**

**}**

**B**

**#include<stdio.h>**

**#include<conio.h>**

**#include<string.h>**

**Void main(void)**

**{**

**Int str=0;**

**Char str[200];**

**Clrscr();**

**Printf(“Enter a few Sentence:\n”);**

**gets(str);**

**for(str=0;(str<strlen(str);clr++)**

**{**

**If(str==0)**

**Str[str]=topper(str[str]);**

**If(str[ctr]==’.’\\str[ctr]==”?”\\str[ctr]==’!’\\str[cter]==’\b’)**

**{**

**If(str[ctr+1]==’’)**

**{**

**Str[ctr+2]=topper/str[ctr+2];**

**}**

**Else**

**{**

**Str[ctr+1]=topper/str[ctr+1];**

**}**

**}**

**Printf(“This is the new string:\n%s”,str);**

**getch();**

**}**

**C**

**#include<stdio.h>**

**#include<conio.h>**

**#include<stdlif.h>**

**Char\*replace word(const char\*s,const char\*,oldqw,const char\*newW)**

**{**

**Char\*result;**

**Int I,cht=0;**

**Int newWlen=strlen(newW);**

**Int oldWlen=strlen(oldW);**

**For(i=0;s[i])!=’\0’;i++)**

**{**

**If(strstr(&s[i],oldW)==&s[i])**

**{**

**Cn++;**

**If=oldWlen-1;**

**}**

**}**

**Result=(char\*)mallor(i+cnt\*(newWlen-oldWlen+1);**

**I=0;**

**While(\*s)**

**{**

**If(strstr(s,oldW)==s)**

**{**

**Strcpy(&result[i],newW);**

**I+=newWlen;**

**S+=oldWlen;**

**}**

**else**

**{**

**Result[i++]=\*s++;**

**}**

**Result[i]=’\0’;**

**Return result;**

**}**

**Void main()**

**{**

**Char str[200];**

**Char c[50]**

**Char d[50];**

**Char\*result=NULL;**

**Printf(“Enter a String to be replaced:\n”);**

**gets(d);**

**result=replace word(str,c,d);**

**printf(“New Sentence:\n%s”,result);**

**free(result);**

**getch();**

**}**

**EXNO:12 TOWERS OF HANOI USING RECURSION**

**#include<stdio.h>**

**#include<conio.h>**

**Void tower of Hanoi(int n,char from,char to,char aux)**

**{**

**If(n==1)**

**{**

**Printf(“\n Move disk 1 from Reg%c to Reg%c”,from,to);**

**return;**

**}**

**Tower of Hanoi(n-1,from,aux,to);**

**Printf(“\n Move disc %d fromPeg%c to Peg%c”,n,from,to);**

**Tower of hanoi(n-1,aux,to,form);**

**}**

**Void main()**

**{**

**Int n;**

**Clrscr()’**

**Printf(“Enter the number of discs:”);**

**Scanf(“%d”,&n);**

**Towers of Hanoi(n,’A’,’C’,’B’);**

**getch();**

**}**

**EXNO:13 SORTING USING PASS BY REFERENCE**

**#include<stdio.h>**

**#include<conio.h>**

**void main()**

**{int i,a[100],I;**

**void sortarray(int\*,int);**

**clrscr();**

**printf(“/n enter the number of elements in an array :”);**

**scanf(“%d”,&n);**

**printf(“/n enter the array elements /n”);**

**for(i=0;i<n;i++)**

**scanf(“d”,&a[i]);**

**printf(“before sorting:/n”);**

**for(i=0;i<n;i++)**

**printf(“%d/t”,a[i]);**

**sortsrray(a,n);**

**printf(“/n after sorting :/n);**

**for(i=0;i<n;i++)**

**printf(“%d/t”,a[i]);**

**getch();**

**}**

**void sortarray(int\*arr,int num);**

**{int i,j,temp;**

**for(i=0;i<num-1;i++)**

**for(j=0;j<num-1-i;j++)**

**if(arr[j]>arr[i+1])**

**{ temp=arr[j];**

**arr[j]=arr[j+1];**

**arr[j+1]=temp;**

**}**

**}**

**EX NO:14 SALARY SLIP OF EMPLOYEES**

**#include<stdio.h>**

**#include<stdlib.h>**

**#include<string.h>**

**Struct employee**

**{**

**Int emp id;**

**Charname[32];**

**Int basic,hra,da,ma;**

**Int PA,insurance**

**Floatgross,net;**

**};**

**Void print salary(struct employee1)**

**{**

**Printf(“salaryship of%s:\n”,e1.name);**

**Printf(“employee ID:%d\n”,e1.empID);**

**Printf(“basic salary:%d\n”,e1.basic);**

**Printf(“house rent allowance:%d\n”,e1.hra);**

**Printf(“dearness allowance:%d\n”,e1.da);**

**Printf(“medical allowance:%d\n”,e1.ma);**

**Printf(“grass salary:%2f rupees\n”,e1.gross);**

**Printf(“\n deductions:\n”);**

**Printf(“provident fund:%d\n”,e1.pf);**

**Printf(“\insurance:%d\n”,e1.insurance);**

**Printf(“\n net salary:%2f rupees\n\n”,e1.net);**

**Return;**

**}**

**Void main()**

**{**

**Int I,ch,num,flag empID;**

**Struct employee\*e1;**

**Printf(“enter the number of employees:”);**

**Scanf(“%d”,&num);**

**E1=(struct employee\*)malloc(size of(struct employee)\*num);**

**Printf(“enter your input for every employee:\n”);**

**For(i=0; i<num;i++**

**{**

**Printf(‘employeeID:”);**

**Scanf(“%d”,&9e1[1].empID));**

**//getchar();**

**Printf(“employee name:”);**

**Scanf(“%s’,&e1[i].name);**

**//f gets(e1[i].name,32,stdin);**

**E1[i].name[strlen(e1[i].name)-1=’\0’;**

**Printf(“basic salary,HRA:”);**

**Scanf(“%d%d”,&(e1[i].basic),&(e1[i].HRA));**

**Printf(“DA,medical allowance:”);**

**Scanf(“%d%d”,&(e1[i].da),&(e1[i].ma));**

**Printf(“PF and insurance:”);**

**Scanf(“%d%d”,&(e1[i].pf),&(e1[i].insurance));**

**Printf(“\n”);**

**}**

**For(i=o;I<num;i++)**

**{**

**E1[i].grass=e1[i].basic+(e1[i].hra\*e1[i].basic)/100+(e1[i].da\*e[i].basic)/100+(e1[i].ma\*e1[i].basic)/100;**

**E1[i].net=e1[i].gross-(e1[i].pf+e1[i].insurance);**

**}**

**While(1)**

**{**

**Printf(‘enter employee ID to get payship:”);**

**Scanf(‘%d”,&enpID);**

**Flag=o;**

**For(i=o;i<num;i++)**

**{**

**If(empID==e1[i].empID)**

**{**

**Print salary(e1[i]);**

**Flag=1;**

**}**

**}**

**If(!flag)**

**{**

**Printf(“no record found!!\n”);**

**}**

**Printf(“do you want tocontinue(1/0:”);**

**If(1ch)**

**{**

**Break;**

**}**

**}**

**Getch();**

**}**

**EX NO 15: INTERNAL MARK OF STUDENTS**

**#include<stdio.h>**

**#include<conio.h>**

**Struct struct**

**{int roll no,s1,s2,s3,s4,s5,tot;**

**char name[10];**

**float avg;**

**}s[10];**

**void main()**

**{int i,n;**

**clrscr();**

**printf(“ enter the number of students:”);**

**scanf(“%d”,&n);**

**for(i=0;i<n;i++)**

**{printf(“/n enter %d student roll number :”,i+1);**

**scanf(“%d”,s[i].roll no];**

**printf(“/n enter the name :”);**

**scanf(“%s”,s[i].name);**

**printf(“/n enter the marks in 5 subjects :”);**

**scanf(“%d%d%d%d%d”,s[i].s1,&s[i].s2,&s[i].s3,&s[i].s4,&s[i].s5);**

**s[i].tot=s[i].s1+s[i].s2+s[i].s3+s[i].s4+s[i].s5;**

**s[i].avg=s[i].tot/5.0;**

**}**

**printf(“/n rollno.name/t/tsub1/tsub2/tsub3/tsub4/tsub5/t/average/n/n”);**

**for(i=0;i<n;i++)**

**{printf(“%d/t%s/t/t%d/t%d/t%d/t%d/t%d/t%d/t%2 f/n”,s[i].rollno,s[i].name,s[i].s1,s[i].s2,s[i].s3,s[i].s4s[i].s5,s[i].tot,s[i].avg);**

**}**

**getch();**

**}**

**EXno : 16 . TELEPHONE DIRECTORIES**

**PROGRAM:**

**#include<stdio.h>**

**#include<conio.h>**

**#include<string.h>**

**struct person**

**{**

**char name[20;**

**long tell no;**

**}**

**void append data()**

**{**

**FILE\* fp;**

**clrscr();**

**fp:(data.txt","a");**

**printf("\*\*\*\*\*add record\*\*\*\*\*\n");**

**printf("Enter name:");**

**scanf("%s",obj.;name,obj.telno);**

**fclose(fp);**

**}void show all data()**

**{**

**FILE\* fp;**

**getch();**

**}**

**void find data()**

**FILE\*fp**

**while(1t eof(fp);**

**{**

**fscqanf(fp,"%20%d",obj.name,&obj tel no);**

**if(tot rec==0)**

**printf("\n\n\nNo data found");**

**else**

**print("\n\n\n==total %d record found ===",totrec);**

**fclose(fp);**

**getch();**

**}**

**void main()getchgetch()**

**{**

**char choice;**

**while ();**

**{**

**clrscr();**

**printf("\*\*\*\*TELEPHONE DIRECTORY\*\*\*\*\*\n\n)"**

**printf("1)append record(\n");**

**printf("2)find record\n");**

**printf("enter your choice:);**

**ff lush(stdio);**

**choice=getch();**

**switch(choice)**

**{**

**case 1;**

**appernd data();**

**break;**

**case2;**

**find data();**

**break:**

**case 3;**

**show all data();**

**break;**

**case 4;**

**case 2;exit();**

**}**

**}**

**}**

**EX.No. : 17 Banking Application**

**PROGRAM:**

**#include <stdio.h>**

**#include <stdlib.h>**

**#include <conio.h>**

**#include <string.h>**

**#define MINBAL 500**

**struct Bank\_Account**

**{**

**char no[10];**

**char name[20];**

**char balance[15];**

**};**

**struct Bank\_Account acc;**

**void main()**

**{**

**long int pos1,pos2,pos;**

**50**

**FILE \*fp;**

**char \*ano,\*amt;**

**char choice;**

**int type,flag=0;**

**float bal;**

**do**

**{**

**clrscr();**

**fflush(stdin);**

**printf("1. Add a New Account Holder\n");**

**printf("2. Display\n");**

**printf("3. Deposit or Withdraw\n");**

**printf("4. Number of Account Holder Whose Balance is less than the Minimum**

**Balance\n");**

**printf("5. Stop\n");**

**printf("Enter your choice : ");**

**choice=getchar();**

**switch(choice)**

**{**

**case '1' :**

**fflush(stdin);**

**fp=fopen("acc.dat","a");**

**printf("\nEnter the Account Number : ");**

**gets(acc.no);**

**printf("\nEnter the Account Holder Name : ");**

**gets(acc.name);**

**printf("\nEnter the Initial Amount to deposit : ");**

**gets(acc.balance);**

**fseek(fp,0,2);**

**fwrite(&acc,sizeof(acc),1,fp);**

**fclose(fp);**

**break;**

**case '2' :**

**fp=fopen("acc.dat","r");**

**if(fp==NULL)**

**printf("\nFile is Empty");**

**else**

**{**

**printf("\nA/c Number\tA/c Holder Name Balance\n");**

**while(fread(&acc,sizeof(acc),1,fp)==1)**

**printf("%-10s\t\t%-20s\t%s\n",acc.no,acc.name,acc.balance);**

**fclose(fp);**

**}**

**break;**

**case '3' :**

**fflush(stdin);**

**flag=0;**

**fp=fopen("acc.dat","r+");**

**printf("\nEnter the Account Number : ");**

**gets(ano);**

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**for(pos1=ftell(fp);fread(&acc,sizeof(acc),1,fp)==1;pos1=ftell(fp))**

**{**

**if(strcmp(acc.no,ano)==0)**

**{**

**printf("\nEnter the Type 1 for deposit & 2 for withdraw : ");**

**scanf("%d",&type);**

**printf("\nYour Current Balance is : %s",acc.balance);**

**printf("\nEnter the Amount to transact : ");**

**fflush(stdin);**

**gets(amt);**

**if(type==1)**

**bal = atof(acc.balance) + atof(amt);**

**else**

**{**

**bal = atof(acc.balance) - atof(amt);**

**if(bal<0)**

**{**

**printf("\nRs.%s Not available in your A/c\n",amt);**

**flag=2;**

**break;**

**}**

**}**

**flag++;**

**break;**

**}**

**}**

**if(flag==1)**

**{**

**pos2=ftell(fp);**

**pos = pos2-pos1;**

**fseek(fp,-pos,1);**

**sprintf(amt,"%.2f",bal);**

**strcpy(acc.balance,amt);**

**fwrite(&acc,sizeof(acc),1,fp);**

**}**

**else if(flag==0)**

**printf("\nA/c Number Not exits... Check it again");**

**fclose(fp);**

**break;**

**case '4' :**

**fp=fopen("acc.dat","r");**

**flag=0;**

**while(fread(&acc,sizeof(acc),1,fp)==1)**

**{**

**bal = atof(acc.balance);**

**if(bal<MINBAL)**

**flag++;**

**52**

**}**

**printf("\nThe Number of Account Holder whose Balance less than the Minimum Balance :**

**%d",flag);**

**fclose(fp);**

**break;**

**case '5' :**

**fclose(fp);**

**exit(0);**

**}**

**printf("\nPress any key to continue....");**

**getch();**

**} while (choice!='5');**

**}M:**

**EX.No. : 18 Railway reservation system**

**PROGRAM:**

**#include<stdio.h>**

**#include<conio.h>**

**int first=5,second=5,thired=5;**

**struct node**

**{**

**int ticketno;**

**int phoneno;**

**char name[100];**

**char address[100];**

**}s[15];**

**int i=0;**

**void booking()**

**{**

**printf("enter your details");**

**54**

**printf("\nname:");**

**scanf("%s",s[i].name);**

**printf("\nphonenumber:");**

**scanf("%d",&s[i].phoneno);**

**printf("\naddress:");**

**scanf("%s",s[i].address);**

**printf("\nticketnumber only 1-10:");**

**scanf("%d",&s[i].ticketno);**

**i++;**

**}**

**void availability()**

**{**

**int c;**

**printf("availability cheking");**

**printf("\n1.first class\n2.second class\n3.thired class\n");**

**printf("enter the option");**

**scanf("%d",&c);**

**switch(c)**

**{**

**case 1:if(first>0)**

**{**

**printf("seat available\n");**

**first--;**

**}**

**else**

**{**

**printf("seat not available");**

**}**

**break;**

**case 2: if(second>0)**

**{**

**printf("seat available\n");**

**second--;**

**}**

**else**

**{**

**printf("seat not available");**

**}**

**break;**

**case 3:if(thired>0)**

**{**

**printf("seat available\n");**

**thired--;**

**}**

**else**

**{**

**printf("seat not available");**

**}**

**break;**

**default:**

**55**

**break;**

**}**

**}**

**void cancel()**

**{**

**int c;**

**printf("cancel\n");**

**printf("which class you want to cancel");**

**printf("\n1.first class\n2.second class\n3.thired class\n");**

**printf("enter the option");**

**scanf("%d",c);**

**switch(c)**

**{**

**case 1:**

**first++;**

**break;**

**case 2:**

**second++;**

**break;**

**case 3:**

**thired++;**

**break;**

**default:**

**break;**

**}**

**printf("ticket is canceled");**

**}**

**void chart()**

**{**

**int c;**

**for(c=0;c<I;c++)**

**{**

**printf(“\n Ticket No\t Name\n”);**

**printf(“%d\t%s\n”,s[c].ticketno,s[c].name)**

**}**

**}**

**main()**

**{**

**int n;**

**clrscr();**

**printf("welcome to railway ticket reservation\n");**

**while(1) {**

**printf("1.booking\n2.availability cheking\n3.cancel\n4.Chart \n5. Exit\nenter your**

**option:");**

**scanf("%d",&n);**

**switch(n)**

**{**

**case 1: booking();**

**break;**

**case 2: availability();**

**56**

**break;**

**case 3: cancel();**

**break;**

**case 4:**

**chart();**

**break;**

**case 5:**

**printf(“\n Thank you visit again!”);**

**getch();**

**exit(0);**

**default:**

**break;**

**}**

**}**

**getch();**

**}**