**CODE** :

#include<stdio.h>

struct data

{ char name[100];

char degree[100];

float expe,age, salary;

}s[100],temps;

int main()

{

int n=0,i=0;

FILE \*f;

f=fopen("temp.txt","r");

printf("\n\*\*\*\*WELCOME TO PROTFOLIO SELECTION\*\*\*\*");

printf("\nThe ratio for different parameters are:");

printf("\n1) Qualification\t0.4\n2) Work experience\t0.35\n3) Salary\t\t0.15\n4) Age\t\t\t0.1");

printf("\nRatio for different degree's are");

printf("\n1) PhD\t\t0.45\n2) M.tech\t0.3\n3) B.tech\t0.25\n");

while(!feof(f))

{

fscanf(f,"%s",&s[i].name);

fscanf(f,"%s",&s[i].degree);

fscanf(f,"%f",&s[i].expe);

fscanf(f,"%f",&s[i].salary);

fscanf(f,"%f",&s[i].age);

i++;

n++;

}

float sum[100]={0};

char dummy1,dummy2;

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

{

if(s[i].degree=="PhD" )

sum[i]+=0.45\*0.4;

else if(s[i].degree=="M.tech")

{

sum[i]+=0.3\*0.4;

}

else //if(s[i].degree=="B.tech")

{

sum[i]+=0.25\*0.4;

}

sum[i]+=(s[i].expe\*0.35)+(s[i].salary\*0.15)+(s[i].age\*0.1);

}

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

printf("Sum of %s is %f\n",s[i].name,sum[i]);

float temp;

char n1[100];

char d1[100];

float e1,a1,sal1;

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

{ for(int j=i+1;j<=n;j++)

{

if(sum[j]>sum[i])

{

temp=sum[j];

sum[j]=sum[i];

sum[i]=temp;

temps=s[j];

s[j]=s[i];

s[i]=temps;

}

}

}

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

printf("\n%s",s[i]);

printf("Optimal Sum %f",sum[0]);

printf("\nSuitable candidate is %s",s[0].name);

float max=sum[0];

int cnt=0;

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

{ if(max==sum[i])

{

cnt++;

}

}

int j;

for(j=0;j<cnt;j++)

{

if(s[j].degree==s[j+1].degree)

{

if(s[j].expe==s[j+1].expe)

{

printf("Candidate %d and %d are suitable",j,(j+1));

}

else if(s[j].expe>s[j+1].expe)

{

printf("Candidate %d is suitable",j);

}

else if(s[j].expe<s[j+1].expe)

{

printf("Candidate %d is suitable",(j+1));

}

}

else if(s[j].degree>s[j+1].degree)

{

printf("Candidate %d is suitable",j);

}

else if(s[j].expe<s[j+1].expe)

{

printf("Candidate %d is suitable",(j+1));

}

}

fclose(f);

return 0;

}

**OUTPUT :**