**Q1.**

UFP = 32\*4 + 60\*5 + 24\*4 + 8\*10 + 2\*7

UFP = 618

Assuming average weighting factors, each factor is assigned a weight of 3:

TDI = 3 \* 14

TDI = 42

CAF = (TDI\*0.01) + 0.65 = 0.42 +0.65 = 1.07

Therefore,

FP = UFP \* CAF = 618 \* 1.07

FP = 661.26

**Q2.**

UFP = 24\*4 + 46\*4 + 8\*6 + 4\*10 + 2\*5

UFP = 378

TDI = 43

CAF = TDI\*0.01 + 0.65

CAF = 1.08

FD = UFP\*CAF

FD = 408.24

**Q3**

#include<iostream>

using namespace std;

int main()

{

int res=0, i, x;

int matrix[3][5]={{3,4,3,7,5}, {4,5,4,10,7}, {6,7,6,15,10}};

cout<<"\n Enter no of user inputs : ";

cin>>x;

cout<<"\n Enter weight factor 1-simple 2-avg 3-complex : ";

cin>>i;

res += (x)\*matrix[i-1][0];

cout<<"\n Enter no of user outputs : ";

cin>>x;

cout<<"\n Enter weight factor 1-simple 2-avg 3-complex : ";

cin>>i;

res += (x)\*matrix[i-1][1];

cout<<"\n Enter no of user inquiries : ";

cin>>x;

cout<<"\n Enter weight factor 1-simple 2-avg 3-complex : ";

cin>>i;

res += (x)\*matrix[i-1][2];

cout<<"\n Enter no of files : ";

cin>>x;

cout<<"\n Enter weight factor 1-simple 2-avg 3-complex : ";

cin>>i;

res += (x)\*matrix[i-1][3];

cout<<"\n Enter no of external interfaces : ";

cin>>x;

cout<<"\n Enter weight factor 1-simple 2-avg 3-complex : ";

cin>>i;

res += (x)\*matrix[i-1][4];

cout<<"\n UFP = "<<res<<endl;

return 0;

}