# **Assignment**

# **AICT 1(0)**



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## • Text form of the code:-

```
#include <iostream>
using namespace std;
float calculateAverage(float matric_per, float fsc_per) {
  return (matric_per + fsc_per) / 2.0;
void checkEligibilityAndSeats(float avg, int seats, string pref1, string pref2, string pref3) {
  if (avg >= 60 \&\& seats > 0) {
     cout << "So you are eligible for the "<<pre>ref1 << endl;</pre>
     cout << "Also seats are available in the 1st Preference" << endl;
  else if (avg >= 55 \&\& seats > 0) {
     cout << "SO you are eligible for "<<pre>ref2 << endl;</pre>
     cout << "Also seats are available in the 2nd Preference" << endl;
  else if (avg >= 50 \&\& seats > 0) {
     cout << " SO you are eligible for the "<<pre>ref3 << endl;</pre>
     cout << "Also seats are available in the 3rd Preference" << endl;
  else if (seats \leq 0 \&\& avg \geq 50) {
     cout << "Sorry, no seats available." << endl;
  }
  else {
     cout << "You are not eligible for any preference." << endl;
int main() {
  string name, phone, address, pref1, pref2, pref3;
  int age = 0, seats = 50;
  float matric_per = 0.0, fsc_per = 0.0;
  float avg;
  cout << "Enter your Name: ";
  cin >> name;
  cout << "Enter your Age: ";
  cin >> age;
  if (age < 0) 
     cout << "Please enter a valid age." << endl;
     return 0;
  cout << "Enter your Phone: ";
  cin >> phone;
  cout << "Enter your Address: ";</pre>
  cin >> address;
  cout << "Enter your Matric percentage: ";</pre>
  cin >> matric_per;
  if (matric_per < 0 \parallel matric_per > 100) {
```

```
cout << "Please enter a valid percentage." << endl;</pre>
  return 0;
cout << "Enter your Inter percentage: ";</pre>
cin >> fsc_per;
if (fsc\_per < 0 \parallel fsc\_per > 100) {
  cout << "Please enter a valid percentage." << endl;</pre>
  return 0;
}
cout << "Enter your First Preference (60 -100)% ";</pre>
cin >> pref1;
cout << "Enter your Second Preference (55-60)% : ";</pre>
cin >> pref2;
cout << "Enter your Third Preference (50-55)% : ";</pre>
cin >> pref3;
avg = calculateAverage(matric\_per, fsc\_per);
cout << "Your average is = " << avg << endl;</pre>
checkEligibilityAndSeats(avg, seats, pref1, pref2, pref3);
return 0;
```

#### • Code with Functions:-

Fig 1.1 shows that Eligibility criteria for admission

### • User details:-

Figure 1.2 shows that the User details

#### • Check seats and Average:-

```
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Teturn 0;

return 0;

return 0;

return 0;

cout << "Enter your Inter percentage: "; cin >> fsc.per; oll | fsc.per > 100) {
 cout << "Please enter a valid percentage." << endl;
 return 0;

cout << "Please enter a valid percentage." << endl;
 return 0;

cout << "Please enter a valid percentage." << endl;
 return 0;

cout << "Enter your First Preference (60 -100)% "; cin >> pref1;
 cout << "Enter your Second Preference (55-60)%: "; cin >> pref2;
 cout << "Enter your Third Preference (50-65)%: "; cin >> pref3;
 avg = calculatedverage(matric.per, fsc.per); cout << "Your average is = " << avg << endl;
 checkEligibilityAndSeats(avg, seats, pref1, pref2, pref3);
 return 0;

78 %  No issues found  No
```

Figure 1.3 shows that we check seats and average

### • Compilation of the code:-

Figure 1.4 shows that compilation of code