Institute of Computer Technology
B. Tech. Computer Science and Engineering

Sub: ESFP – I
Course Code: 2CSE102

Practical – 3

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Class: B
Batch:14

Q.1.Problem Definition:

A cashier has currency notes of denominations 5,10,20,50 and 100. If the amount to be

withdrawn is input through the keyboard, find the total number of currency notes of each

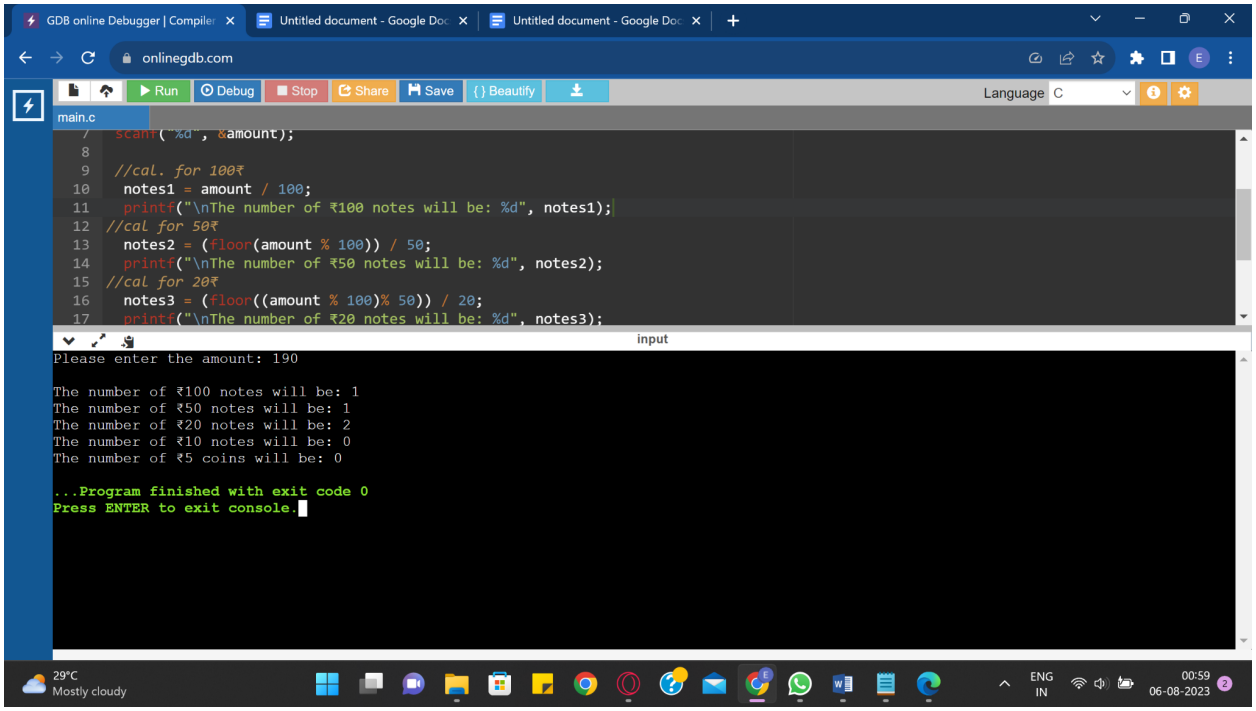
denomination the cashier will have to give to the withdrawer.

Solution:

Code:-

```
#include <stdio.h>
#include <math.h>
void main()
{
 int amount = 0, notes1 = 0, notes2 = 0, notes3 = 0, notes4 = 0,
notes5 = 0;
 printf("Please enter the amount: ");
 scanf("%d", &amount);
```

```
 //cal. for 100₹
  notes1 = amount / 100;
  printf("\nThe number of ₹100 notes will be: %d", notes1);
//cal for 50₹
  notes2 = (floor(amount % 100)) / 50;
  printf("\nThe number of ₹50 notes will be: %d", notes2);
//cal for 20₹
  notes3 = (floor((amount % 100)% 50)) / 20;
  printf("\nThe number of ₹20 notes will be: %d", notes3);
//cal for 10₹
  notes4 = (floor(((amount % 100) % 50)%20)) / 10;
  printf("\nThe number of ₹10 notes will be: %d", notes4);
//cal for 5₹
  notes5 = (floor((((amount % 100) % 50)%20) %10)) / 5;
  printf("\nThe number of ₹5 coins will be: %d", notes5);
}
```



Q.2.Problem Definition:

The distance between two cities (in km) is input through the keyboard. Make a program to

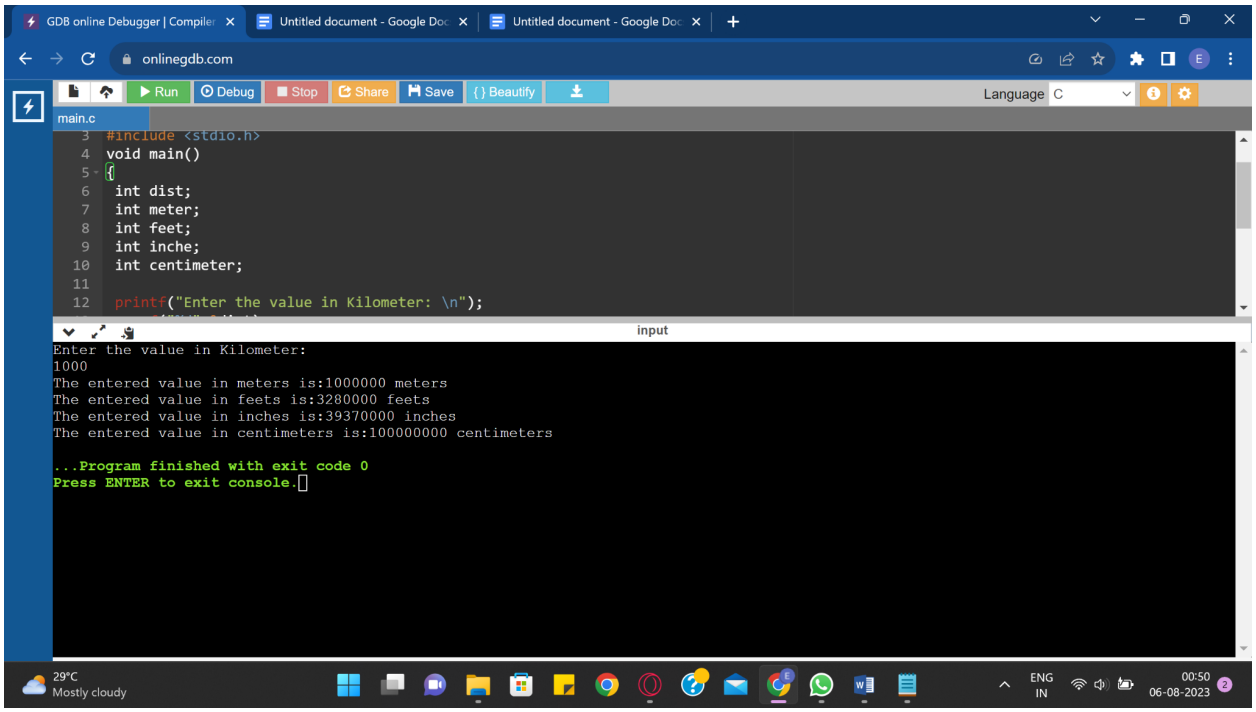
convert and print this distance in meters, feet, inches, and centimetre.

Solution:

Code:-

```
//practical-3 (Q-2)

#include <stdio.h>
void main()
{
 int dist;
 int meter;
 int feet;
 int inche;
 int centimeter;

 printf("Enter the value in Kilometer: \n");
 scanf("%d",&dist);
   meter=dist*1000;
   feet=dist*3280;
   inche=dist*39370;
   centimeter=dist*100000;
 printf("The entered value in meters is:%d meters\n",meter);
```

```
 printf("The entered value in feets is:%d feets\n",feet);
 printf("The entered value in inches is:%d inches\n",inche);
 printf("The entered value in centimeters is:%d
centimeters",centimeter);

}
```



Q.3.Problem Definition:

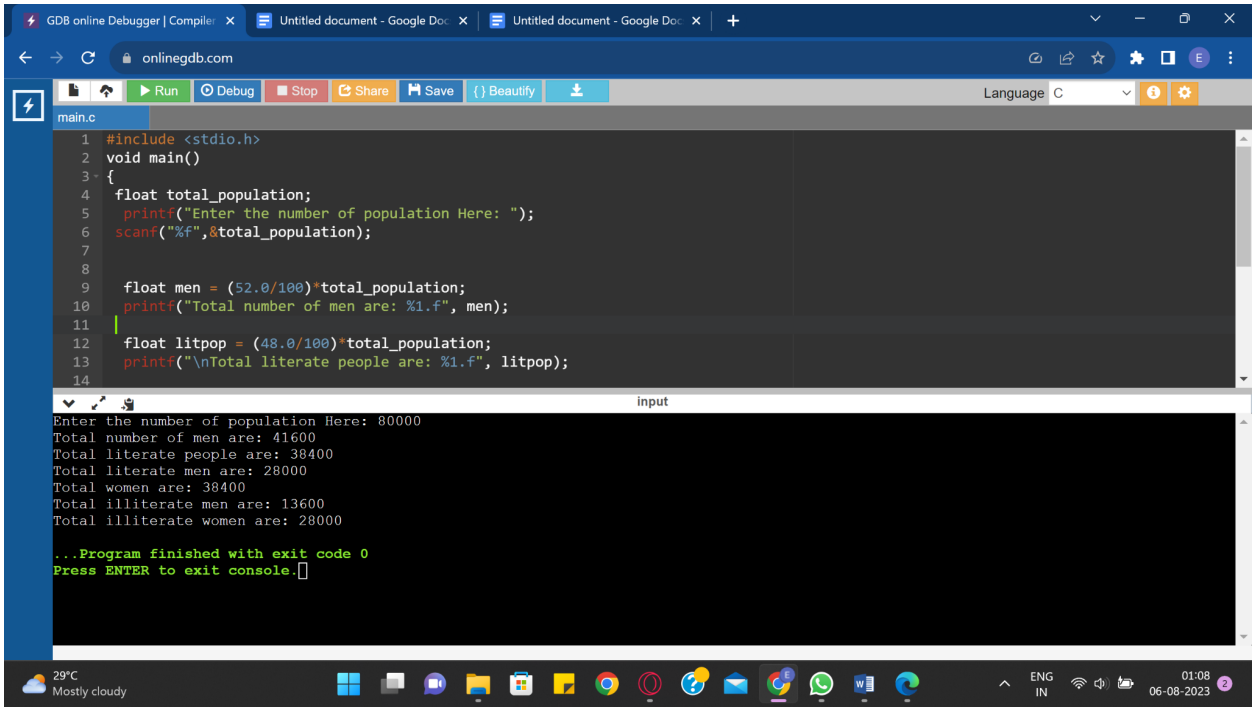
In a town, the percentage of men is 52%. The percentage of total literacy is 48% of total population. If total percentage of literate men is 35 of the total population, make a program to find the total number of illiterate men and women if the population of the town is 80000.

Solution:

Code:-

```
#include <stdio.h>
void main()
{
 float total_population;
  printf("Enter the number of population Here: ");
 scanf("%f",&total_population);


  float men = (52.0/100)*total_population;
  printf("Total number of men are: %1.f", men);

  float litpop = (48.0/100)*total_population;
  printf("\nTotal literate people are: %1.f", litpop);

  float litmen = (35.0/100)*total_population;
  printf("\nTotal literate men are: %1.f", litmen);

  //no external eqation was needed here.
  printf("\nTotal women are: %1.f", (totpop-men));
```

```
  float totwom = (totpop-men);
  printf("\nTotal illiterate men are: %1.f",men-litmen);

  float totlitwom = litpop - litmen;
  printf("\nTotal illiterate women are: %1.f",totwom - totlitwom);
}
```



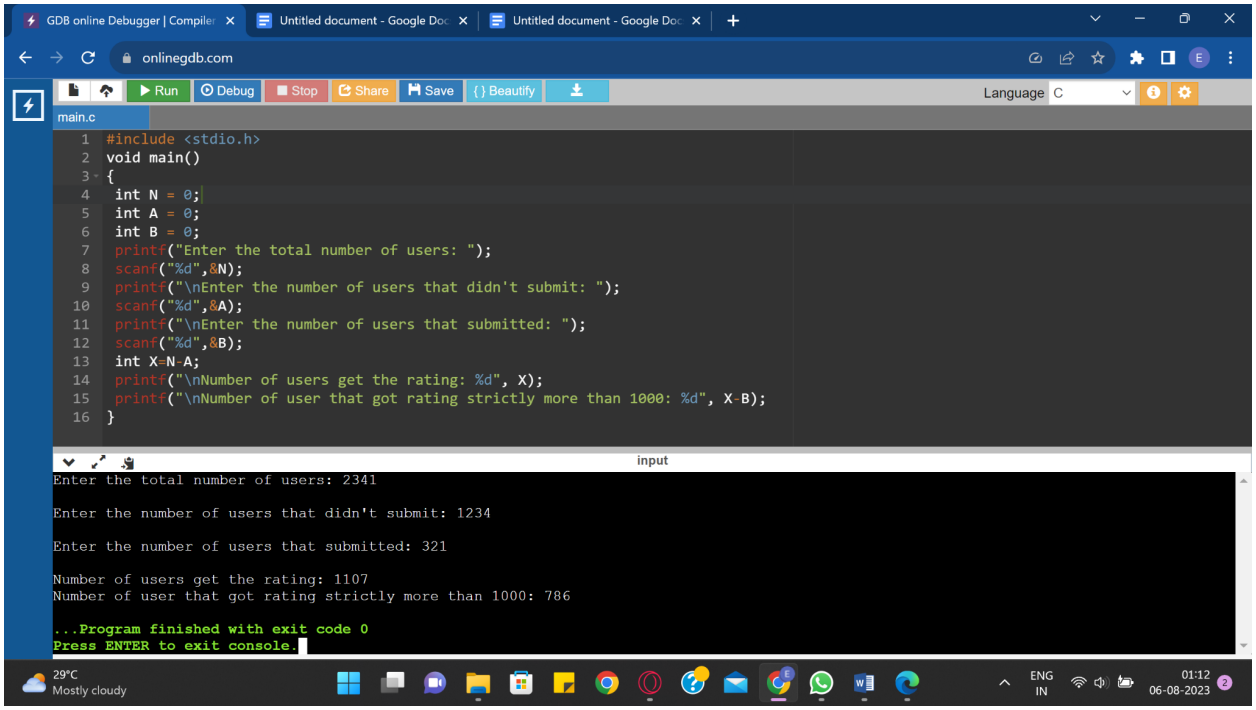
Q.4.Problem Definition:

• A user just saw the problems and didn’t make any submissions and hence won’t get any rating.
• B users who made a submission but could not solve any problem correctly. Thus, after the contest, they will get a rating in the range 800 - 1000.
• Everyone else could correctly solve at least 1 problem. Thus, they will get a rating strictly greater than 1000 after the contest.
You need to find output the number of new users in the contest who, after the contest, will get a rating and also the number of new users who will get a rating strictly greater than 1000.

Solution:

Code:-

```
#include <stdio.h>
void main()
{
 int N = 0;
 int A = 0;
 int B = 0;
 printf("Enter the total number of users: ");
 scanf("%d",&N);
 printf("\nEnter the number of users that didn't submit: ");
 scanf("%d",&A);
 printf("\nEnter the number of users that submitted: ");
 scanf("%d",&B);
 int X=N-A;
 printf("\nNumber of users get the rating: %d", X);
 printf("\nNumber of user that got rating strictly more than 1000: %d",
X-B);
}
```


GDB online Debugger | Compiler
Untitled document - Google Doc
Untitled document - Google Doc
onlinegdb.com
Run
Debug
Stop
Share
Save
{ } Beautify
Language C
main.c
#include <stdio.h>
void main()
{
int N = 0;
int A = 0;
int B = 0;
printf("Enter the total number of users: ");
scanf("%d",&N);
printf("\nEnter the number of users that didn't submit: ");
scanf("%d",&A);
printf("\nEnter the number of users that submitted: ");
scanf("%d",&B);
int X=N-A;
printf("\nNumber of users get the rating: %d", X);
printf("\nNumber of user that got rating strictly more than 1000: %d", X-B);
}
input
Enter the total number of users: 2341
Enter the number of users that didn't submit: 1234
Enter the number of users that submitted: 321
Number of users get the rating: 1107
Number of user that got rating strictly more than 1000: 786
...Program finished with exit code 0
Press ENTER to exit console.
29°C
Mostly cloudy
ENG
IN
01:12
06-08-2023