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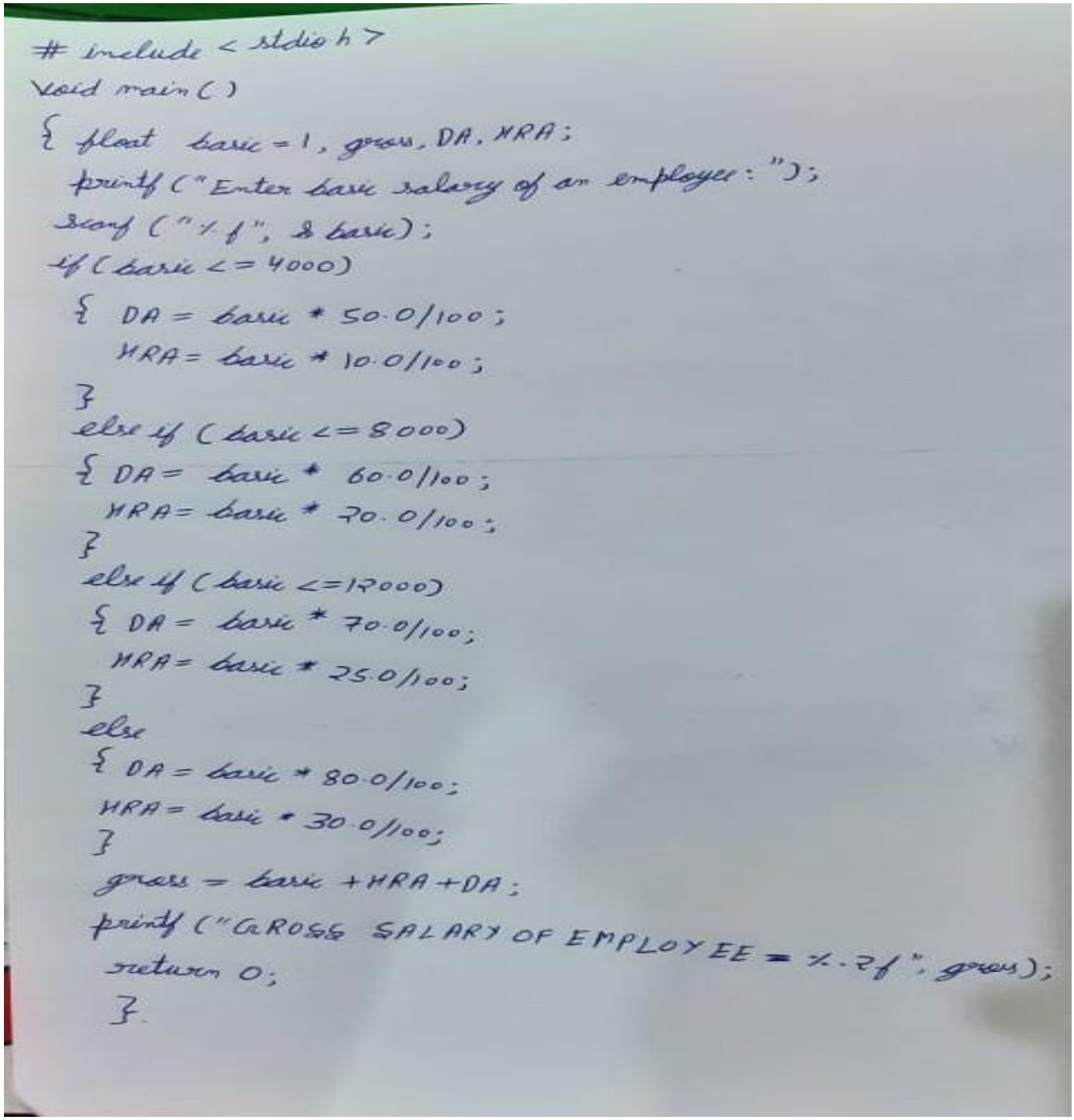
1. Accept the salary of an employee from the user. Calculate the gross salary on the following basis:

Basic	HRA	DA
1 - 4000	10%	50%
4001 - 8000	20%	60%
8001 - 12000	25%	70%
12000 and above	30%	80%

Ans 1-



```
# include <stdio.h>
Void main()
{ float basic=1, gross, DA, HRA;
  printf("Enter basic salary of an employee: ");
  scanf("%f", &basic);
  if(basic<=4000)
  { DA = basic * 50.0/100;
    HRA = basic * 10.0/100;
  }
  else if(basic<=8000)
  { DA = basic * 60.0/100;
    HRA = basic * 70.0/100;
  }
  else if(basic<=12000)
  { DA = basic * 70.0/100;
    HRA = basic * 25.0/100;
  }
  else
  { DA = basic * 80.0/100;
  HRA = basic * 30.0/100;
  }
  gross = basic + HRA + DA;
  printf("GROSS SALARY OF EMPLOYEE = %.2f", gross);
  return 0;
  }
```

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2. Write a program to print the following pattern:

a)1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

b)1
2 2
3 3 3
4 4 4 4
5 5 5 5 5

Ans 2:-

a)

```
# include < stdio.h >
Void main()
 { int a = 32;
   printf ("1\n");
   printf ("2 %c 2\n", a );
   printf ("3 %c 3 %c 3\n", a, a);
   printf ("4 %c 4 %c 4 %c 4\n", a, a, a);
   printf ("5 %c 5 %c 5 %c 5 %c 5\n", a, a, a, a);
  }
```

b)

```
# include < stdio.h >
Void main()
{
   int a = 32;
  printf ("1\n");
  printf ("1 %c 2\n", a);
  printf ("1 %c 2 %c 3\n", a, a);
  printf ("1 %c 2 %c 3 %c 4\n", a, a, a);
  printf ("1 %c 2 %c 3 %c 4 %c 5\n", a, a, a, a);
 }
```

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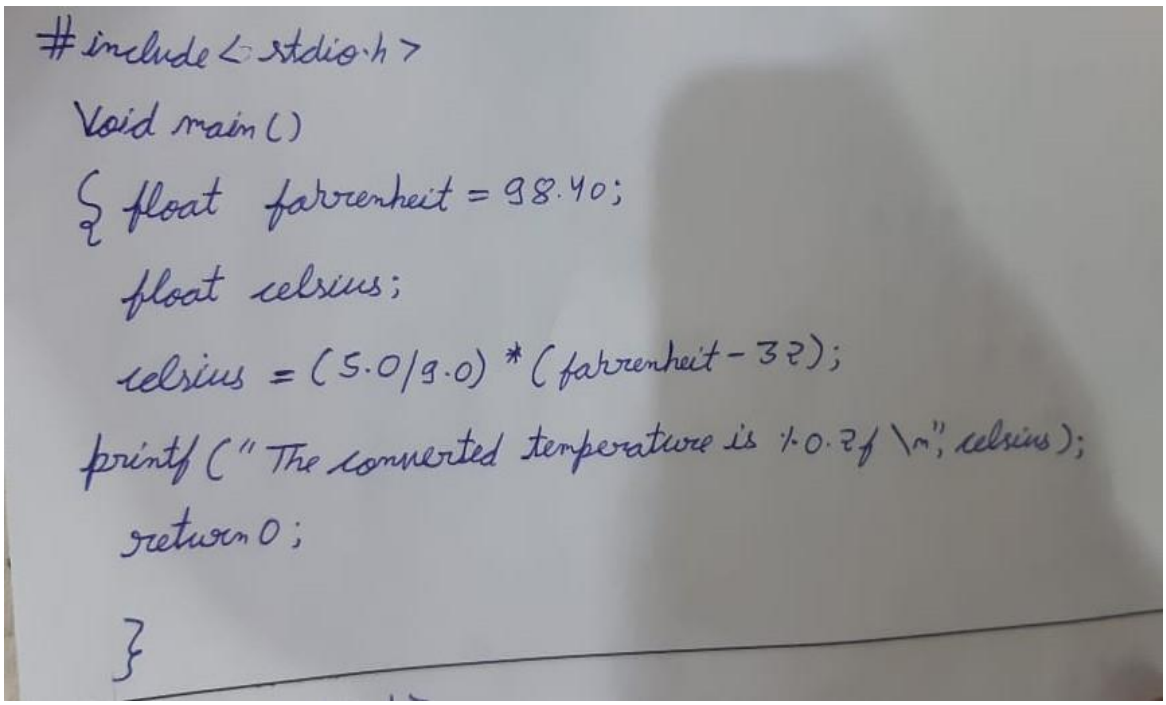
3. Write a C program temp.c that accepts a temperature in Fahrenheit and prints the corresponding temperature in Celsius. C/5 = (F − 32)/9 Test data and expected output: Enter temp in Farenheit:98.4 Temp 98.40 in Fahrenheit = 36.89 Centigrade.

Ans 3:-



```
#include<stdio.h>
Void main()
{ float fahrenheit = 98.40;
  float celsius;
  celsius = (5.0/9.0) * (fahrenheit - 32);
printf("The converted temperature is %.0.2f \n", celsius);
  return 0;
}
```

4. Create a new file yourname.c using gedit. Write C statement(s) in yourname.c which produces the following output. You may edit the same file yourname.c for each case by commenting the previous statement(s)

a. Good day!

b. Good /\ day!

c. He shared his “wisdom” with me

d. Hello world! (Using a single printf statement)

e. Hello world! (Using a single printf statement that has no blank space)

f. How are you? I am OK.

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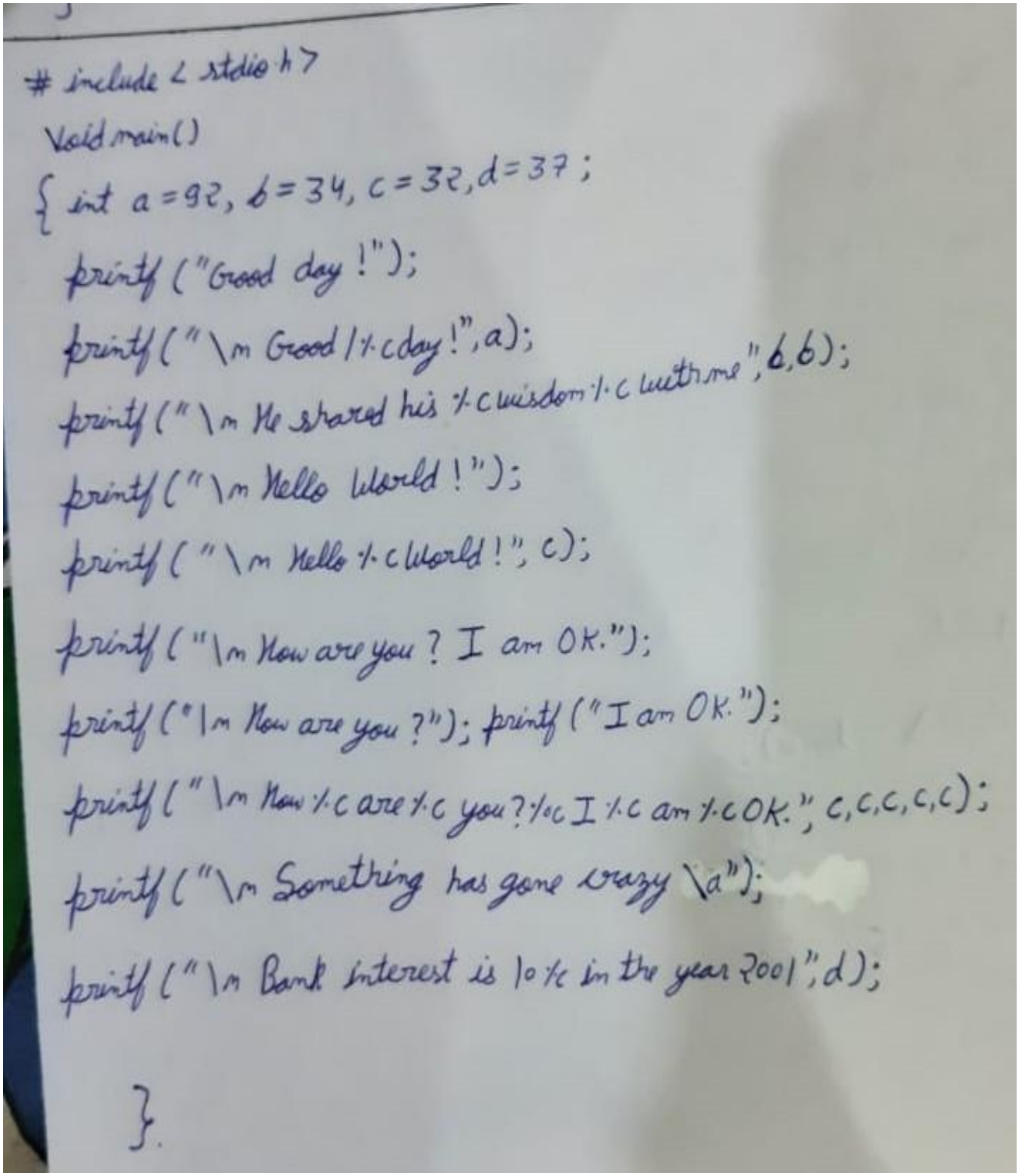
g. How are you? I am OK. (Using two printf statements which have no blank spaces)

h. How are you? I am OK. (Using a single printf statement that has no blank space)

i. Something has gone crazy (with a beep sound)

j. Bank interest is 10% in the year 2001

Ans 4:-



```
#include <stdio.h>
Void main()
{ int a=92, b=34, c=32, d=37;
  printf("Good day!");
  printf("\n Good %cday!",a);
  printf("\n He shared his %cwisdom %cwithme",b,b);
  printf("\n Hello World!");
  printf("\n Hello %cWorld!", c);
  printf("\n How are you ? I am OK.");
  printf("\n How are you ?"); printf("I am OK.");
  printf("\n How %c are %c you ?%c I %c am %cOK.", c,c,c,c,c);
  printf("\n Something has gone crazy \a");
  printf("\n Bank interest is 10% in the year 2001",d);
}
```

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5. Write a C program to convert a given integer (in days) to years, months and days, assumes that all months have 30 days and all years have 365 days. Go to the editor For Example:

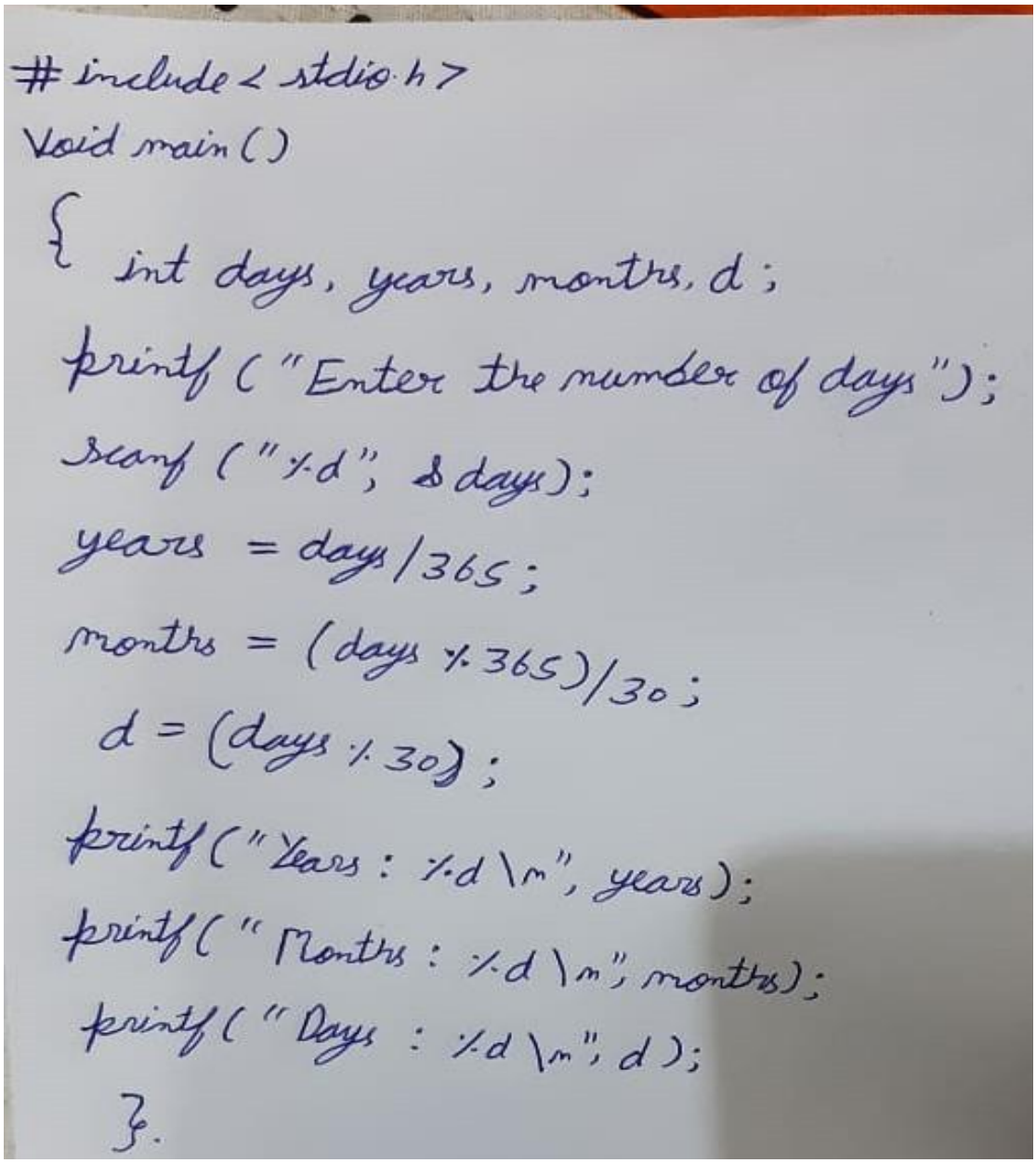
Input no. of days: 2535

Expected Output: 6 Year(s)

11 Month(s)

15 Day(s)

Ans 5:-



```
#include<stdio.h>
Void main()
{
  int days, years, months, d;
  printf("Enter the number of days");
  scanf("%d", &days);
  years = days/365;
  months = (days %365)/30;
   d = (days %30);
  printf("Years : %d \n", years);
  printf("Months : %d \n", months);
  printf("Days : %d \n", d);
  }.
```

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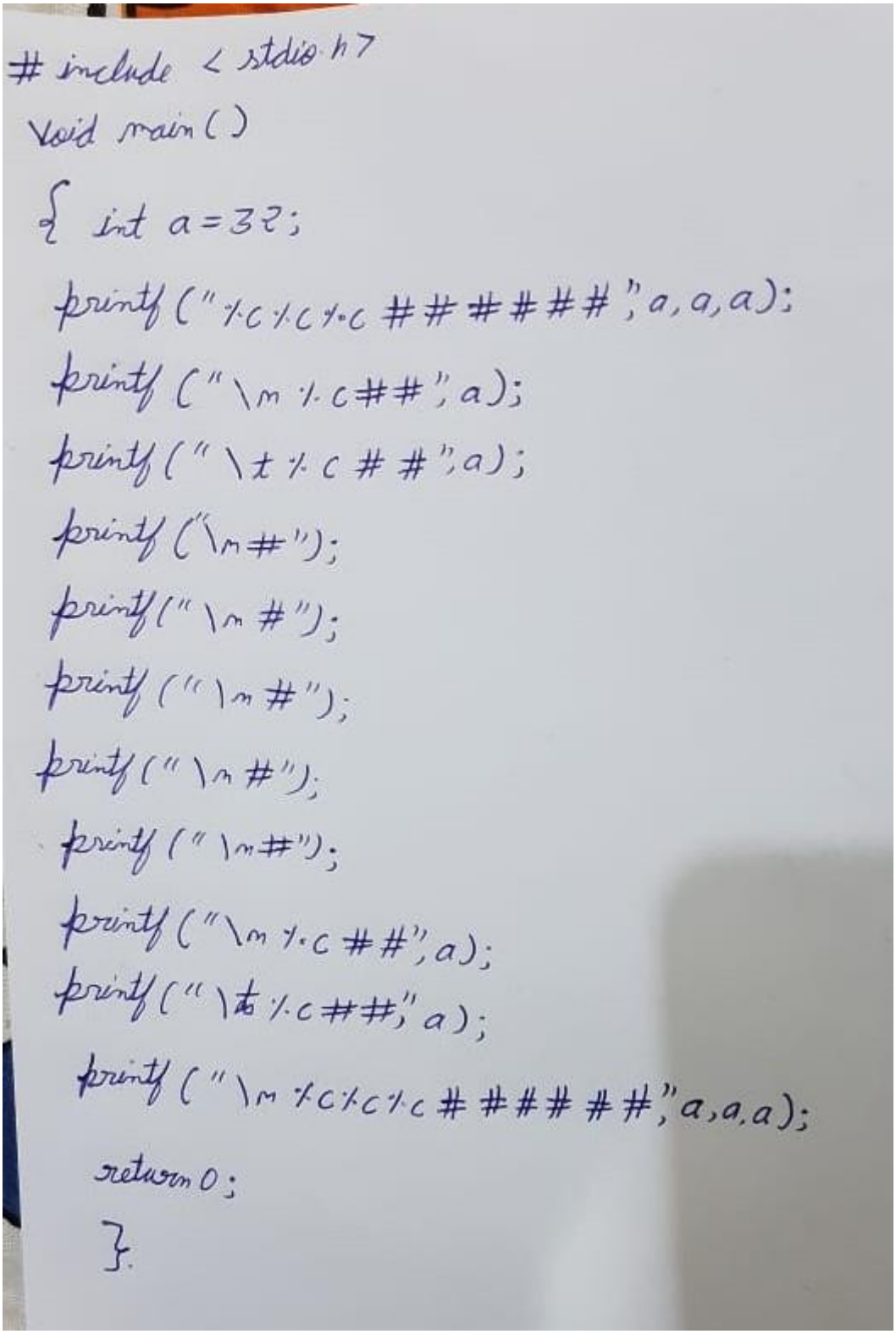
6. Write a C program to print a big 'C'.

Ans 6:-



```
#include <stdio.h>
Void main()
{ int a=32;
printf("%c%c%c ######";a,a,a);
printf("\n %c##";a);
printf("\t %c##";a);
printf("\n#");
printf("\n #");
printf("\n #");
printf("\n #");
printf("\n#");
printf("\n %c##";a);
printf("\t %c##";a);
printf("\n %c%c%c ######";a,a,a);
return 0;
}
```