1. Write a menu driven C Program to design a simple calculator which solves 10 operations - 4 Arithmetic, 4 Relational and any two of your Choice. The program should loop till user wishes to loop.

#include < stdio.h>
#include < math.h>
Put main ()

int main ()

int num1, num2, choice;

char ch;

do

int moselect courchoice

print ("Inselect your choice from the options given below: his
print ("ARITHMETIC OPERATIONS: In In 1-Addution In 2Subtraction In 3-Multiplication In 4- Division
In In RELATIONAL OPERATIONS: In 5- Equal In 6Greater than In 7- Smaller than In 8-Not
legral to In In RANDOM In 9- Area of triangle
In 10-PowerIn");

Scanf ("1.d", & chorce);

private ("Enter the first number:");

Scanf ("1.d", & num1);

private ("Enter the Second number: ");

Scanf ("1.d", & num2);

Switch (choice)

print ["Addition of "I od and "I od Is:

"/ od \n", num1, num2, num1+ num2);
break;

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print ("Subtraction of 4.d and 1.d is 4.d \n",
Case 2:
         num1, num2, num1-num2);
   break;
 print ("multiplication of of and of od 95 dod Int
Case 3:
      num1, num2, num & num2);
    break;
Case 4:
  triends william afor opened and is tod.
  if (num2 = = 0)
     printf ("cannot divide by zero \n");
    else
     printf ("Division of %d and I.d is I.d In",
           num1, num2, num1/num2);
       break;
  case 5:
     1/ (num1 = = num 2)
          print ("Both the numbers are equal");
         print ("Both numbers are not equal");
      break;
   Case 6:
      if ( num1 > num2)
        print ("1.d is greater than 1.d", num1, num2)
      else printfl" 1. d 15 greater than 1.d", num2,
           break;
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```

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Case 7:
 i ( Lnum1 < numz)
    print ("1. d is smaller than 1.d", num1, num2))
     prints ("1.d is smaller than 1.d", num 2, num 1);
    Clse
      break;
Case 8:
  if (num! ! = num2)
    print ("Both numbers are not equal");
     else
     print ("Both number are equal");
    break;
Case 9:
 print ("Area of triangle having sides 1. d and
        ·1·d is ·1·f, num1, num2, (0.5 + num1 2+num2));
  break;
 case 10;
   print ["1.d to the power of % d is "1.6", num1,
         rum 2, pow (num1, num2));
     break;
   défaut :
     printf ("Please select correct option \n");
      break;
   printf (" Do you want to repeat the operation
               Y/N:")',
     Scary (" 1. c", & ch);
     while Cch == 'y' 11 ch == 'Y');
                                        Scanned by Easy Scanner
```

2. Write a C program to accept three numbers from the user. Find the greater two among the three and pass them as parameters to the user defined functions given below.

a. Summer:) - which finds the sum and average of the two numbers. Fint the sum and return the average.

b. printeven()-which prints all the even numbers between the given two numbers.

include < stdio. h> Int sumaver ("int nums, "int nums) float sum = 0, aug; Sum = num1 + num2; aug = sum/2; print (" Insum of two numbers is of. fin", sum); return aug; Int printeven (int num3, int num4) Int a = num 3+ 1, arr[10]; print ("In Even numbers are: "); while (a< num4) ip (a1.2 = = 0) { print ("1.d It", a); int main ()

int num[3], i, j, temp, s, p;

print ("Enter three numbers: \n");

Scary ("1.d 1.d 1.d 1.d", & num[1]; &num[2], &num[3];

for (i=1; i < 4; i++)

{
for (j=i+1; j < 4; j++)

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```
if (num[i] > num[j])

Europ = num[i];

num[i] = num[j];

num[j] = temp;

3 3

5 = sumaver (num[2], num[3]);

p = printeren (num[2], num[3]);

printf ("InAverage is: 1/2 \n", s);

return o;

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