```
1. Weute a & menu driven a program to design a simple
calculator which solves 10 operations. 4 Arithmetic, 4 Relational & 2
of your choice. The perogram should loop till the user wishes to stop.
# include < stdio. h>
# include < math h>
 int main ()
   int a, b, choice;
   print (" Enter 1" number: ");
   Scan ("1.d", fa);
   print (" Enter 2<sup>nd</sup> number:");
   scary (" 1.d", 4 b);
     print[("calculator \n");
     print (" J. addition In");
     prints (" 2. substraction \n");
     prints ("3. multiplication In");
    print ( 4. division in );
     print[(" 5. less than \n");
     print ("6. quater than In");
     print ("7. even or odd \n");
      print ('8. modulas nn');
      perint ( '9. checking square In');
      print[("10. not equal (n");
      scan { ("./.d", 4 choice);
```

```
switch (choice)
 case 1: puint ("-/d + -/d = -/d", a, b, a+b);
  case 2: print ("1d-1d=1d", a, b, a-b);
  case 3: print[("/d*/d=/d", a, b, a *6);
  case 4: print[("1.d/1.d=1.d", a, b, a/b);
          bruak;
   cases: if (a(b)
           prunt ("1.d", a);
           else il (b(a)
            puint (5'1d', b);
            print (" equal");
            i (a>b)
   case 6:
             print[(".).d", a);
            clse if (b>a)
               print (" -1. d", b);
             else
```

```
puint ("equal");
ceuse 7: i) (a1.2==0)
           puint ("1d is even; a);
            perint (" 1.d is odd", b);
            i) (b-1.2 = =0)
            puint ("1.d is even", b);
              else
               print ("/d is odd", b);
             bruak;
case 8: puint ("1.d", a, b, a1.b);
        bruak;
case 9: print ("/d It /d", a *a , b * b);
       bruak;
case 10: print (" 7. d! = 7. d=1/d, a, b, a! = b)
         bruah;
         printf ("invalid In");
default:
         break;
```

y while (choice!=1);

6

- 2. Write a C purgram to aupt 3 numbers from the user Find the greater 2 among the 3 and pass them as parameters to the user defined functions.
 - a) Sumaver(...) which finds the sum and average of the 2 numbers.
 Print the sum and sulvers the average.

6)

#include (stdio.h)

[wat sumawer (int.t, int 12)

float aug=0; int sum=0; sum= (1+12);

avg = (sum)/2;

prints (" sum is: 1.d in", sum);

setuen avg;

void plunteven (int 1, int 12)

print (" Even numbers au : \n");

for (i=12; i<1; i++)

if (1-/2 = = 0)

```
parint (" 1.d", i);
void main ()
 2 The state of the
              int a, b, c, 1, 12;
                puint[("Enter ang 3 numbers:");
                 scan (" ', d ', d ', d', ga, 4b, sc);
                   il (a>b gg a>c)
                                       1 : a;
                      i) ((6>a) 44 (6>c))
                                     lib;
                             i (a = = 1)
                                             if (p>c)
                                                          12:6;
                                                                                                                                                                                        else
                                                                  12:0;
```

```
if (b = = 1)
  il (a>c)
    12 = 0;
  else
   12 = 0;
1 ((==1)
   il (a>b)
      12:0;
   che
     12 = 6;
puint ("Average is: 1.1 (n", sumawer (1,12));
printeven (1,12);
```