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1BM19 (5090
Experiment -1
                                   5 Mohammed Broken Ratil
                  menu diven ( program to disign
a) Write a
     a simple calculator which solves
                                             10 operations -
     4 Antheretic, 4 relational and any two of
           choice. The program should
                                            loop till
         user vishes to stop.
      the
code.
     #include (stdio.h)
      # include ( conio. h)
      int main ()
           chas flag;
            int num, num 2, rosult =0;
            while (1)
              print f ("In Enter First Value:");
               scanf (" 1.d", & numi);
               print f ("In Enter Operator In + (addition), In
                       - (subtraction), In + (multiplication), In
                       1 (division), In 1 (remainder), In
                       A ( num! (to the power) num; ), In
                       < (loss than ?), In (greater than?),
                       In = (equal to?), In! (not equal to?)
                       In (n');
               scanf (" /.d", & num 2);
              switch (flag)
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result = num (+ num 2;

break;

printf ("In sum is = 1d", result);

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IBMIY CS090
case '-'
                                        RAHIL
result = num 1 - num 2;
prints ("In Difference is = 1.d", result).
print f ("InIn Enter Value Again for a New Input In").
 break .
case \ *
result = number 1 * num 2.
printf = ("In Product is = 1,d", result);
prints = ("In In Enter value again. For a New input In").
break,
case 1'
result = num 1 / num 2
print + ("In Quotient is = 1.d", result);
print f ["In In Enter value again for a New ExputIn"]
case '/.'
result = num 1 / num 2;
print f ("In Remainder is = 1.d", result);
print f ("In In Enter value again for a New Enput In").
break;
cose >
if (num 1 >> num 2)
     print f ( " yes ");
     printf ("In In yes");
     print f ("In Enter Value Again For a New Impathis)
 break ,
 Case = - -
  if (num 1 = num 2)
       printf ("yes");
                          2
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printf ("Inln w");
   printf ("In Enter value Again for New Input In")
break;
case ' n '.
print f (" 1/1f", pow (num!, num 2))
 break;
 case 'l':
 if (num! == num 2)
      printf ("no"):
  else
       printf ("Inly yes");
       print f ("In Enter value Again for New Exput In),
  break;
  défault:
   print f ("In Enter value Valid operator!!! (n');
   print f ("In In Enter value Again For a New Travet la
  return o;
```

IBM 19CS090 RAHIL

S. Mohammed Ibrahim Rahil

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a) Write a (program to accept 3 numbers from user find the greater two among the three and pous them as parameters to the userdefined functions on below.
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a) sumaver () which finds the sum and average of the 2 numbers. Find sum and return average.

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

between the given two numbers. code! #include (Stalio . h) # include / conco. L) ind main (). end max of 3 (inta, intb, inta) int largest =0; if (a) b & a>c) largest = a; else if (bs a ss b>c) largest = b largest = c return largest;

void sumaver (int a, int 5)

printf ("the average is: "/d \n", (a+b)/2); printf ("the sum is: //d \n", (a+b));

```
void printeren (inta, intb)
                                  1BM1965090
                                     RAHLL
{
     int i
      print f ("Even numbers 1/d to 1/d (inclusive);
                                             b, a);
       for (i=b; i <=a; i++)
       3
            if ( i 1/2 = = 0)
                 print f (" 1.d", i);
 int maxof2 (int a, int b)
     int largest = 0;
      if (a) b)
         largest = a;
       else if (bsa)
          larges t = b;
       return largest;
 int n1, n2, n3, x, y, f1;
 printf ("Enter three numbers: (n");
 scanf (" 1.d 1/d", DM, Bn2, Bn3);
 x = mare 3 ( n1, n2, n3);
 if (x == M)
     y = maxof 2 (n2, n3);
 else if (x = = n2)
     y = maxof 2 (n1, n3);
      y = maxof 2 (n1, n2);
  print f (" the largest of two of given three are

1.d and -1.d \n', x, y);
  sum and (x, y);
  printeren (x,y);
  return o;
                        5
```

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```
#include<stdio.h>
  #include<conio.h>
  int main()
       int maxof3(int a,int b, int c)
            int largest=0;
       if(a>b && a>c)
          largest=a;
  else if(b>a && b>c)
           largest=b;
                 largest=c;
            return largest;
       void sumaver(int a, int b)
             printf("the average is : %d \n", ((a+b)/2));
printf("the sum is : %d \n",(a+b));
       void printeven(int a, int b)
       int i;
printf("Even numbers between %d to %d (inclusive): " ,b,a);
for (i = b; i <= a; i++)</pre>
                 if(i\%2 == 0)
                      printf("%d ", i);
       }
       int maxof2(int a,int b)
            int largest=0;
       if(a>b)
               largest=a;
            else if(b>a)
               largest=b;
      return largest;
       int n1,n2,n3,x,y,fl;
       printf("Enter three number, scanf("%d%d%d",&n1,&n2,&n3);
                                   mbers: \n");
       x = maxof3(n1,n2,n3);
       if (x==n1)
       y = maxof2(n2,n3);
else if(x==n2)
           y = maxof2(n1,n3);
       printf("the largest two of the given three are %d and %d \n",x,y); sumaver(x,y);
       printeven(x,y);
54}
```

```
Enter three numbers:
13
12
11
the largest two of the given three are 13 and the average is : 12
the sum is : 25
Even numbers between 12 to 13 (inclusive): 12
Process finished.
```

```
Enter three numbers:
3
5
9
the largest two of the given three are 9 and the average is : 7
the sum is : 14
Even numbers between 5 to 9 (inclusive): 6 8
Process finished.
```

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 \leftarrow
 #include<stdio.h>
#include<conio.h>
  int main()
       char flag;
             printf("\nEnter First Value:");
scanf("%d",&num1);
printf("\nEnter Operator\n+ (addition),\n - (subtraction),\n * (multiplication),\n / (division) ,\n % (r
scanf(" %c",&flag);
printf("\nEnter Second Value:");
scanf("%d",&num2);
       int num1, num2, result = 0;
       while(1)
               switch(flag)
                    result = num1 + num2;
printf("\nSum is = %d",result);
broak;
                     result = num1 - num2;
                     printf("\nDifference is = %d",result);
printf("\n\n Enter value Again for a New Input\n");
                     break;
case '*': result = num1 * num2;
                     printf("\nProduct is = %d",result);
printf("\n\n Enter value Again for a New Input\n");
                    result = num1 / num2;
printf("\nQuotient is = %d",result);
printf("\n\n Enter value Again for a New Input\n");
                     result = num1 % num2;
printf("\nReminder is = %d",result);
printf("\n\n Enter value Again for a New Input\n");
                     if(num1>>num2)
    printf("yes");
                   if(num1>>num2)
                            printf("no");
                   }
break;
case '^':
printf("%lf",pow(num1,num2));
                   if(num1==num2)
    printf("no");
           getch();
: File info (i)
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门
      Terminal
Enter First Value:50
Enter Operator
+ (addition),
- (subtraction),
* (multiplication),
 / (division) ,
% (remainder) ,
^ (num1(to the power)num2) ,
< (less than?) ,
> (greater than?),
= (equal to?),
 ! (not equal to?)
Enter Second Value:3
Product is = 150
Enter value Again for a New Input
Enter First Value:3
Enter Operator
+ (addition),
 - (subtraction),
* (multiplication),
/ (division) ,
% (remainder) ,
^ (num1(to the power)num2) ,
< (less than?)
> (greater than?),
= (equal to?),
! (not equal to?)
Enter Second Value:4
81.000000
Enter First Value:g
Enter Operator
+ (addition),
 - (subtraction),
* (multiplication),
/ (division) ,
% (remainder) ,
^ (num1(to the power)num2) ,
< (less than?)
> (greater than?),
= (equal to?),
 ! (not equal to?)
Enter Second Value:h
Enter value Valid Operator!!!
```

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```
Enter First Value:5
Enter Operator
+ (addition),
 - (subtraction),
 * (multiplication),
 / (division) ,
 % (remainder) ,
 ^ (num1(to the power)num2) ,
 < (less than?)
 > (greater than?),
 = (equal to?),
 ! (not equal to?)
<
Enter Second Value:11
yes
 Enter value Again for a New Input
Enter First Value:
             Thank You!
no.
```