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1BM19CS177

1. Write a menue driven C program to perform 4 arithmetic, 4 relational and 2 other operations

```
#include <stdio.h>
void input (float *a , float * b);

void input (float *a, float *b)
{
    printf("\n Enter first number : ");
    scanf ("%of" , a);
    printf("Enter second number : ");
    scanf ("%of" , b);
}
int main()
{
    float a,b,res=0;
    int c=0, x,y,z=0;
    while(c!=-1)
    {
      printf("Enter1 for addition \n");
      printf("Enter 2 for subtraction \n");
      printf("Enter 3 for multiplication\n");
      printf("Enter 4 for division \n");

    printf("Enter 5 to check if greater than\n");
    printf("Enter 6 to check if lesser than \n");
    Enter printf("Enter 7 to check if equal \n");
    printf("Enter 8 for greater than or equal \n");
```

```
printf("Enter 9 for Remainder");
printf("\n Enter 10 for sum of squares \n");
printf("Enter -1 to exit \n");
printf("\n Enter your choice : ");
scanf("%d", &c);
if(c==-1)
    break;
if(c!=9)
    input(&a, &b);
switch(c)
{
  case 1:
    res = a+b;
    printf("\n %f + %f = %f", a, b, res);
    break;
  case 2:
    res = a-b;
    printf("\n %f - %f = %f", a, b, res);
    break;
  case 3:
    res = a*b;
    printf("\n %f * %f = %f \n\n", a, b, res);
    break;
  case 4:
    res = a/b;
    printf("\n %f / %f = %f \n\n", a, b, res);
    break;
```

```
case 5:
  if (a>b)
      printf("\n %of >%of\n\n", a,b) ;
  else
      printf ("\n%of < %of \n\n", a,b) ;
  break;
case 6:
  if(a<b)
      printf("\n %of < %of \n\n", a,b);
  else
      printf" \n %of >%of &\n\n", a,b);
  break;
case 7:
    if(a==b)
      printf("The entered nos. are equal\n\n");
    else
     printf("The entered nos. are not equal\n\n");
case 8: break;
case 8:
  if(a>=b)
    printf("%of is greater than or equal to %of",
       a,b);
  else
  printf "("%of is not greater than or equal to
        %of", a,b);
  break;
```

```
case 9:
    printf("Enter first number : ");
    scanf("%d", &x);
    printf("Enter second number : ");
    scanf("%d", &y);
    r = x%y;
    printf("\n\n%d %% %d = %d", x, y, r);
    break;
case 10:
    res = a*a+b*b;
    printf("\n%f^2 + %f^2 = %f", a,b,res);
    break;
default:
    printf("\n\n Invalid choice\n\n");
    break;
  }
}

printf("----DONE----");
return 0;
}
```

2. write a C program to enter 3 number and write two function and accept 2 two largest numbers, printeven & summation.

```
#include <stdio.h>

float summation (int a, int b);
void printeven (int a, int b);

void printeven (int a, int b)
{
    int i;
    printf (" Even numbers from %d to %d \n"
            , a, b);
    if (a%2 != 0) a++;
    for (i = a; i <= b; i += 2)
        printf ("%d ", i);
}
float summation (int a, int b)
{
    return (float)(a+b)/2.0;
}
int main ()
{
    int x, y, z, a, b;
    printf (" Enter first number : ");
    scanf ("%d", &x);
    printf (" Enter second number : ");
    scanf ("%d", &y);
```

```
printf("Enter third number: ");
scanf("%d", &z);

if(x<y && x<z)
{
    a = y;
    b = z;
}
else if(y<x && y<z)
{
    a = x;
    b = z;
}
else if(z<x && z<y)
{
    a = x;
    b = y;
}
avg = sumaverr(a,b);
printf("Average of %d & %d is %f\n\n", a,b
avg);
printaverr(a,b);
return 0;
}
```