

1 write a menu drive 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 the user wishes to stop.

```
#include <stdio.h>
#include <math.h>
int main()
{
    int a, b, c = 1;
    printf("Enter the first number\n");
    scanf("%d", &a);
    printf("Enter the second number\n");
    scanf("%d", &b);
    while(c != 0)
    {
        printf("Enter the choice\n");
        printf("1 - addition\n 2 - subtraction\n 3 - multiplication\n 4 - division\n");
        printf("5 - greater of nos\n 6 - smallest of nos\n 7 - if equal\n 8 - not equal\n 9 - modulus\n 10 - power\n");
        scanf("%d", &c);
        switch(c)
        {
            case 1:
                printf("Sum of %d and %d = %d\n", a, b, a+b);
                break;
```

case 2;

```
printf("diff of %d and %d = %d\n", a, b, a-b);
break;
```

case 3:

```
printf("multi of %d and %d = %d\n", a, b, a*b);
break;
```

case 4;

```
printf("div of %d and %d = %d\n", a, b, a/b);
break;
```

case 5:

```
if (a > b)
    printf("%d/n", a);
else
    printf("%d/n", b);
break;
```

case 6:

```
if (a < b)
    printf("%d/n", a);
else
    printf("%d/n", b);
break;
```

case 7:

```
if (a == b)
    printf("numbers are equal/n");
break;
```

case 8:

```
if (a != b)
    printf("mod of %d and %d = %d/n", a, b, a % b);
break;
```

case 9:

```
printf("mod of %d and %d = %d/n", a, b, a % b);
break;
```

```
case 10: printf("pow of %d and %d = %d", a, b, pow(a, b));
break;
```

```
case 11: printf("thank you/n");
break;
```

```
default: printf("wrong choice");
```

```
}
}
```

Expt. No. _____

B.19

2. Wp to accept three numbers from user. Find greater two among three and pass them as parameters to user defined functions
- Sumaver(...) which finds sum and average of two numbers.
 - print even(...) which prints all even no's b/w two given no.

#include <stdio.h>

float Sumaver(int x, int y)

{

printf("Sum: %d\n", x+y);

return ((x+y)/2);

}

void printeven(int x, int y)

{ printf("All even numbers from %d to %d\n", y, x);

{ for (int i=y; i<=x; i++)

{ if (i%2 == 0)

printf("%d", i);

}

}

int main()

{ int a[3], g1, g2, t;

printf("Enter the three numbers\n");

scanf("%d %d %d", &a[0], &a[1], &a[2]);

for (int i=0; i<3; i++)

{

if (a[i] < a[j])

{

t = a[i];

a[i] = a[j];

a[j] = t;

}

}

}

Teacher's Signature : _____

9

`g1 = a[0];``g2 = a[1];``float aver = sumaver(g1, g2);``printf("Average: %f\n", aver);``prnteven(g1, g2);``return 0;``}`