SARASWATHI.B
IBM19CS032

1. Write a menu driven c program to design a simple calculator which saves 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>
Void main()
{
int n1,n2, choice;
char ch;
do
{
Printf("\n select your choice from the options
        given below : \n");
Printf("\n ARITHMETIC OPERATIONS : \n
1-Addition\n 2-Subtraction \n
3-Multiplication\n 4-Division\n\n
RELATIONAL OPERATIONS : \n
5-Equal to \n 6-Greater than\n
7-Lessed than\n 8-not equal to \n\n
9- Perimeter of rectangle \n
10- Power \n");
```

```
scanf("%d", &choice);
Printf("Entu the first number:");
scanf("%d", &n1);
Printf("Entu the second number:");
scanf("%d", &n2);
switch(choice)
{
case 1:
Printf("\n Addition of %d and %d is %d\n",
        n1, n2, n1+n2);
break;
case 2:
Printf("\n subtraction of %d and %d is %d\n",
        n1, n2, n1-n2);
break;
case 3:
Printf("\n Multiplication of %d and %d is %d\n",
        n1, n2, n1*n2);
break;
case 4:
PRINTF("\n Division of %d and %d is %d\n",
        n1, n2, n1/n2);
break;
```

```
Case 5;
if(n1==n2)
Printf("Both the numbers are equal");
else
Printf("Both the numbers are not equal");
break;
Case 6:
if(n1>n2)
Printf(" %d is greater than %d", n1,n2);
else
Printf(" %d is greater than %d ", n2,n1);
break;
case 7:
if(n1<n2)
Printf ("In %d is lessed than %d ", n1,n2);
else
Printf("In %d is lessed than %d", n2,n1);
break;
Case 8:
if( n1!=n2)
Printf("In Both are not equal");
else.
Printf("In Both are equal");
break;
```


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```
case 9:
printf("\t Pelimeter of rectangle having length
        %d and breadth %d is %d \n", n1, n2,
        2*(l+b));

break;

case 10:
printf(" %d to the power of %d is %d", n1, n2,
        Pow(n1, n2));

break;

default:
Printf(" Entel correct choice \n");

break; }
Printf(" Enter x to continue");

scanf("%c", &ch);

}

while (ch=='x' || ch=='x');

}
```

2.

```
#include <stdio.h>
int sumaver (int num1, int num2)
{
 float sum = 0, avg ;
 sum = num1+num2;
 avg = sum/2;
 Printf ("In sum of two numbers is %f In ",sum);
 return avg ;
}
int printeven (int num3, int num4)
{
 int x = num3 + 1, arr[10];
 Printf ("In Even numbers are: ");
 while(x<num4)
{
 if( x %.2 ==0)
Printf("%d\t",x);
++x;
}
 int main()
 {
 int num[3], i, j, temp, s, P;
Printf ("Enter three numbers: In");
scanf ("%d %d %d", &num[1], &num[2], &num[5]);
for (i=1; i<4; i++)
```

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

 {
  temp = num[i];
  num[i] = num[j];
  num[j] = temp;
  }
  }
  }
  s = sumaver (num[2], num[3]);
  P = Printeven (num[2], num[3]);
  Printf ("\n Average : %.d \n", s);
  return 0;
  }
```


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