USN - 1BM19CS008
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15/9/20 Ex.no - 1 Week 1

1) Write a menu driven C program to design a simple calculator which solves 10 operations, 4 - arithmetic, 4 relational and any two other. The program should loop till the user wishes to stop.

A)

```
#include <stdio.h>
#include <math.h>

int main()
{ int a,b,c;d;
do{ printf(" Choose an option \n
        1a. Addition \n
        2b. Substraction \n
        3. Multiplication \n
        4. division \n
        5. Lesser than \n
        6. greater than \n
        7. Equal to \n
        8. Not equal to \n
        9. Remainder \n
        10. greater than & equal to \n
        11. Exit \n ");
scanf("%d", &a);
```

```
switch (a)
printf("Enter two numbers");
scanf("%d %d", &b, &c);
switch (a)
{
  Case 1 : { printf("%d", b+c);
             break; }
  Case 2 : { printf("%d", b-c);
             break; }
  Case 3 : printf("%d", b*c);
  Case 4 : printf("%d", b/c);
           break;
  Case 5 : printf("%d",
           { if (b<c)
               d = 1;
             else d=0;
             printf("%d", d);
           } break;
  Case 6 : { if (b>c)
               d = 1;
             else d=0;
             printf("%d", d);
           } break;
  Case 7 : { if (b==c)
               d=1;
             else d=0;
             printf("%d", d);
           } break;
  Case 8 : { if (b!=c)
               d=1;
             else
               d=0;
             printf("%d", d);
           } break;
  Case 9 : printf("%d", b%c);
  Case 10 : {
             if (b>=c)
               d=1;
             else
               d=0;
             printf("%d", d);
           } break;
  Case 11 : printf("exit");
}
} while (a!=11);
return 0;
}
```