Cassignments - Day 15 (15-Sept-2022)

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Que1 – Write a program to read two numbers from user and read choice if choice 1 then add two numbers

If choice 2, the subtract them

If choice 3, then multiply them

If choice 4, divide them

If choice 5, find their modulus.

Otherwise display wrong choice.

```
#include <stdio.h>
void main()
    int a, b, choice;
    printf("Enter your numbers\n");
    scanf("%d%d", &a, &b);
    printf("Please enter the choice\n");
    scanf("%d", &choice);
    switch (choice)
    case 1:
        printf("The addition is %d", a + b);
        break;
    case 2:
        printf("The substration is %d", a - b);
        break;
    case 3:
        printf("The multiplication is %d", a * b);
        break;
    case 4:
        printf("The division is %d", a / b);
        break;
        printf("The modulus is %d", a % b);
        break;
    default:
        printf("Wrong choice");
```

Que2- Write a program to read two numbers from user and read choice.

If choice 1, print all the numbers between these two numbers in ascending order

If choice 2, print all the numbers in descending order

If choice 3, print all the numbers in interval of two.

If choice 4, print all the numbers in interval of 3

Otherwise print "Wrong choice" using for loop while loop and do-while loop.

With for

```
#include <stdio.h>
void main()
    int a, b, choice;
    printf("Enter two numbers\n");
    scanf("%d%d", &a, &b);
    printf("Enter your choice\n");
    scanf("%d", &choice);
    switch (choice)
    case 1:
        if (a > b)
            for (b; a >= b; b++)
                printf("%d\t", b);
        else
            for (a; b >= a; a++)
            {
                printf("%d\t", a);
            break;
        }
    case 2:
        if (a > b)
            for (a; a >= b; a--)
```

```
printf("%d\t", a);
   else
       for (b; b >= a; b--)
           printf("%d\t", b);
   break;
case 3:
   if (a > b)
       for (b; a >= b; b += 2)
           printf("%d\t", b);
   else
       for (a; b >= a; a += 2)
           printf("%d\t", a);
   break;
case 4:
   if (a > b)
       for (b; a >= b; b += 3)
           printf("%d\t", b);
   else
       for (a; b >= a; a += 3)
           printf("%d\t", a);
```

```
break;

default:
    printf("Wrong choice.");
}
```

With do-while

```
#include <stdio.h>
void main()
   int a, b, choice;
   printf("Enter two numbers\n");
   scanf("%d%d", &a, &b);
    printf("Enter your choice\n");
   scanf("%d", &choice);
    switch (choice)
       if (a > b)
                printf("%d\t", b);
                b++;
            } while (a >= b);
        else
                printf("%d\t", a);
                a++;
            } while (b >= a);
            break;
    case 2:
       if (a > b)
                printf("%d\t", a);
```

```
a--;
       } while (a >= b);
   else
           printf("%d\t", b);
       } while (b >= a);
    break;
case 3:
   if (a > b)
           printf("%d\t", b);
           b += 2;
       } while (a >= b);
   else
           printf("%d\t", a);
           a += 2;
       } while (b >= a);
   break;
case 4:
   if (a > b)
           printf("%d\t", b);
           b += 3;
       } while (a >= b);
   else
```

With while

```
#include <stdio.h>
void main()
    int a, b, choice;
   printf("Enter two numbers\n");
    scanf("%d%d", &a, &b);
    printf("Enter your choice\n");
    scanf("%d", &choice);
    switch (choice)
    case 1:
       if (a > b)
            while (a >= b)
                printf("%d\t", b);
                b++;
        else
            while (b >= a)
                printf("%d\t", a);
                a++;
            break;
        case 2:
           if (a > b)
```

```
while (a >= b)
           printf("%d\t", a);
           a--;
    else
       while (b >= a)
       printf("%d\t", b);
   break;
case 3:
   if (a > b)
       while (a >= b)
           printf("%d\t", b);
           b += 2;
   else
        while (b >= a)
       printf("%d\t", a);
       a += 2;
   break;
case 4:
   if (a > b)
       while (a >= b)
           printf("%d\t", b);
           b += 3;
```

```
else
{
    while (b >= a)
        {
        printf("%d\t", a);
        a += 3;
        }
        break;

default:
    printf("Wrong choice.");
}
```