מטלה מס' 3 - התניה

מגיש - זאב

IF חלק א' – פקודות

שאלה 1

```c
int a,b,c;
printf("Enter 3 numbers ");
scanf("%d%d%d",&a,&b,&c);

if(a < b && b < c)
{
    printf("YES");
}
else
{
    printf("NO");
}
```

שאלה 2

```c
int number;
printf("Enter number ");
scanf("%d",&number);

if((number > 99 && number < 1000) || (number > -1000 && number < -99 ))
 {
    printf("YES");
}
else
{
    printf("NO");
}
```

שאלה 3

```c
int number,num,num10;
printf("Enter number ");
scanf("%d",&number);

if((number > 9 && number < 100) || (number > -100 && number < -9 ))
 {
```

```c
        num = (number %10) + (number /10);
        printf("\n%d",num);
    }
    else
    {
        printf("ERROR");
    }
```

שאלה 4

```c
    int number;
    printf("Enter number ");
    scanf("%d",&number);

    if(number > 0 || number < 0)
    {
        if (number > 0)
        {
            printf("POITIVE");
        }
        else
        {
            printf("NEG");
        }

    }
    else
    {
        printf("ZERO");
    }
```

שאלה 5

```c
    int a,b,c,sum;
    printf("Enter 3 numbers ");
    scanf("%d%d%d",&a,&b,&c);

    if(a < b && b < c)
    {
        sum = a + b + c;
        printf("sum = %d",sum);
    }
    else if (a > b && b > c)
    {
        sum = a * b * c;
        printf("mulip = %d",sum);
    }
    else
```

```
    {
        printf("ERROR");
    }
```

שאלה 6

```
    int a,b,c;
    printf("Enter 3 numbers ");
    scanf("%d%d%d",&a,&b,&c);

    if(a >= b && a >= c)
    {
        printf("%d",a);
    }
    else if (b >= a && b >= c)
    {
        printf("%d",b);
    }
    else
    {
        printf("%d",c);
    }
```

swich חלק ב' – פקודות

```
    int val,flag=0;
    float num1, num2; // added "float num1, num2;"
    float res;

    printf("enter 2 numbers: ");
    scanf("%d%d", &num1, &num2);

    printf(" 1 : add \n 2 : sub \n 3 :mul \n 4 : div \n ");
    scanf("%d", &val);
    switch (val)
    {
            case 1 :res = num1 + num2 ;
            break; // added brake;
            case 2 :res = num1 - num2 ;
            break; // added brake;
            case 3 :res = num1 * num2 ;
            break; // added brake;
            case 4 :res = num1 / num2 ;
            break; // added brake;
            default :printf("wrong function selection \n");
                    flag = 1 ;
    }
    if (flag==0)
```

```
    printf("the resualt is : %.2f\n", res);
    }
```

א

```
  wrong function selection
```

ב

```
  add break to all case
```

ג

Sums	Total	val
34 + 45	79	1
15 - 10	5	2
15 * 5	75	3
wrong function selection	ERROR	4

ד

```
  6
  turn num1,num2 in to float but leaving val as int
```

חלק ג' –האופרטור

```
    int num,res;
    printf("Enter number ");
    scanf("%d",&num);

    res = (num %2 == 0) ? num * num : num * 2;
    printf("%d",res);
```