TUGAS PERTEMUAN 9
PRAKTIKUM ALGORITMA & STRUKTUR DATA

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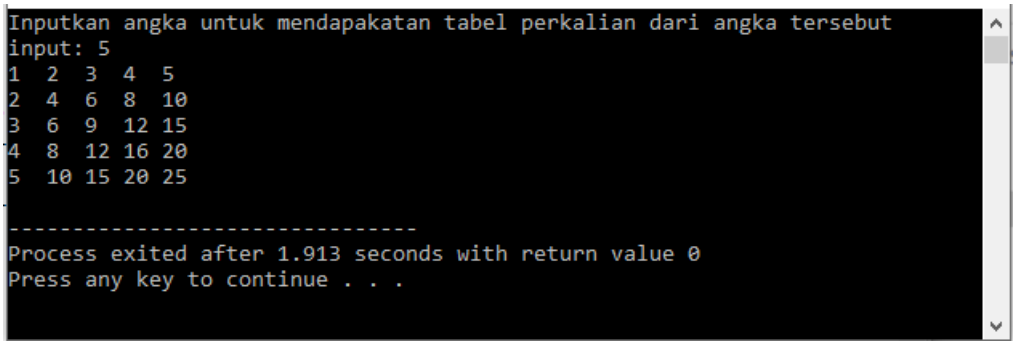
TEKNIK INFORMATIKA

Simulasi Program

1	Simulasi Program						
2	Inisialisasi	Ex input	Kondisi	True/False	Proses	Output	Proses
3	int input,i=1 j = 1;	input = 5	i <= input	TRUE			
4			j <= input	TRUE	i * j = 1 * 1	1	j = 1 + 1 = 2
5			j <= input	TRUE	i * j = 1 * 2	2	j = 2 + 1 = 3
6			j <= input	TRUE	i * j = 1 * 3	3	j = 3 + 1 = 4
7			j <= input	TRUE	i * j = 1 * 4	4	j = 4 + 1 = 5
8			j <= input	TRUE	i * j = 1 * 5	5	j = 5 + 1 = 6
9			j <= input	FALSE		endl	i = 1 + 1 = 2
10							
11			i <= input	TRUE			
12			j <= input	TRUE	i * j = 2 * 1	2	j = 1 + 1 = 2
13			j <= input	TRUE	i * j = 2 * 2	4	j = 2 + 1 = 3
14			j <= input	TRUE	i * j = 2 * 3	6	j = 3 + 1 = 4
15			j <= input	TRUE	i * j = 2 * 4	8	j = 4 + 1 = 5
16			j <= input	TRUE	i * j = 2 * 5	10	j = 5 + 1 = 6
17			j <= input	FALSE		endl	i = 2 + 1 = 3
18							
19			i <= input	TRUE			
20			j <= input	TRUE	i * j = 3 * 1	3	j = 1 + 1 = 2
21			j <= input	TRUE	i * j = 3 * 2	6	j = 2 + 1 = 3
22			j <= input	TRUE	i * j = 3 * 3	9	j = 3 + 1 = 4
23			j <= input	TRUE	i * j = 3 * 4	12	j = 4 + 1 = 5
24			j <= input	TRUE	i * j = 3 * 5	15	j = 5 + 1 = 6
25			j <= input	FALSE		endl	i = 3 + 1 = 4
26							

1	Simulasi Program						
2	Inisialisasi	Ex input	Kondisi	True/False	Proses	Output	Proses
27			i <= input	TRUE			
28			j <= input	TRUE	i * j = 4 * 1	4	j = 1 + 1 = 2
29			j <= input	TRUE	i * j = 4 * 2	8	j = 2 + 1 = 3
30			j <= input	TRUE	i * j = 4 * 3	12	j = 3 + 1 = 4
31			j <= input	TRUE	i * j = 4 * 4	16	j = 4 + 1 = 5
32			j <= input	TRUE	i * j = 4 * 5	20	j = 5 + 1 = 6
33			j <= input	FALSE		endl	i = 4 + 1 = 5
34							
35			i <= input	TRUE			
36			j <= input	TRUE	i * j = 5 * 1	5	j = 1 + 1 = 2
37			j <= input	TRUE	i * j = 5 * 2	10	j = 2 + 1 = 3
38			j <= input	TRUE	i * j = 5 * 3	15	j = 3 + 1 = 4
39			j <= input	TRUE	i * j = 5 * 4	20	j = 4 + 1 = 5
40			j <= input	TRUE	i * j = 5 * 5	25	j = 5 + 1 = 6
41			j <= input	FALSE		endl	i = 5 + 1 = 6
42							
43			i <= input	FALSE			EXIT

Screenshot Hasil Program



Code Program

```
#include <iostream>

using namespace std;

int main(){
	int input;
	cout <<"Inputkan angka untuk mendapakatan tabel perkalian dari angka tersebut" << endl;
	cout <<"input: "; cin >> input;
	for(int i=1; i<=input; i++){
		for(int j=1; j<=input; j++){
			cout << i*j;
			if(i*j < 10){
				cout << "  ";
			}else if (i*j >= 10){
				cout << " ";
			}
		}
		cout << endl;
	}
	return 0;
```

```
}
```