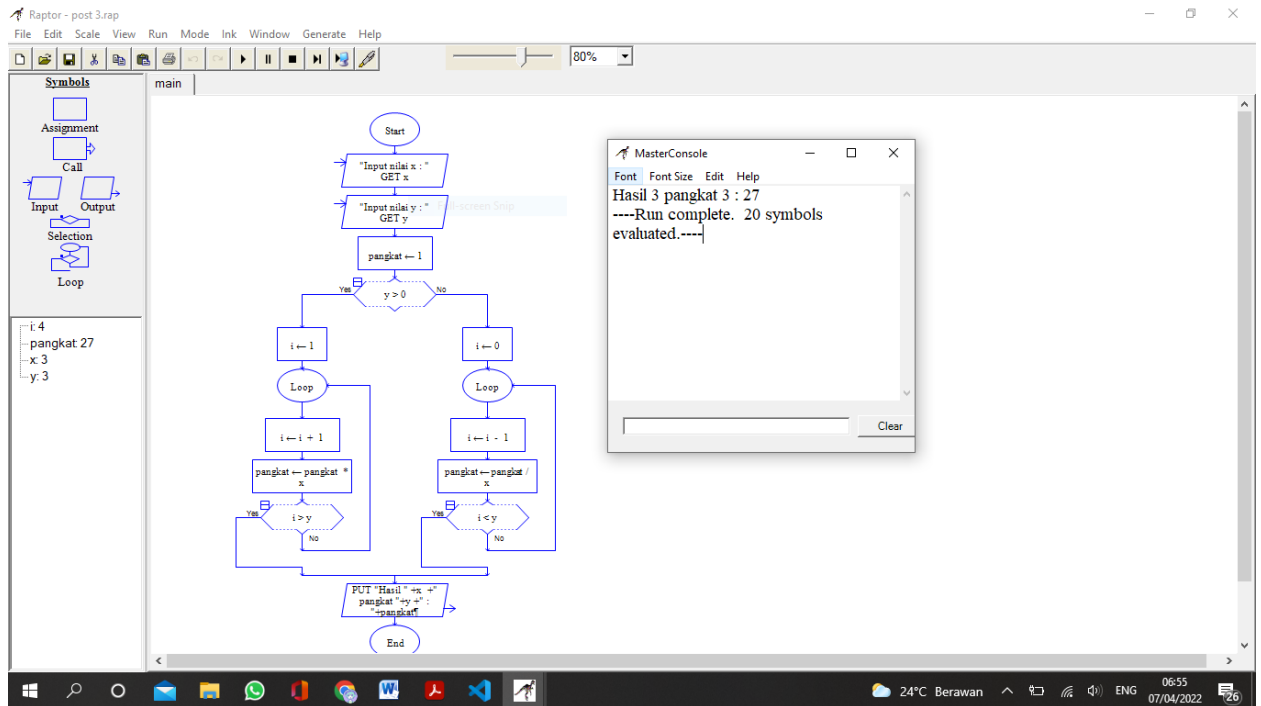
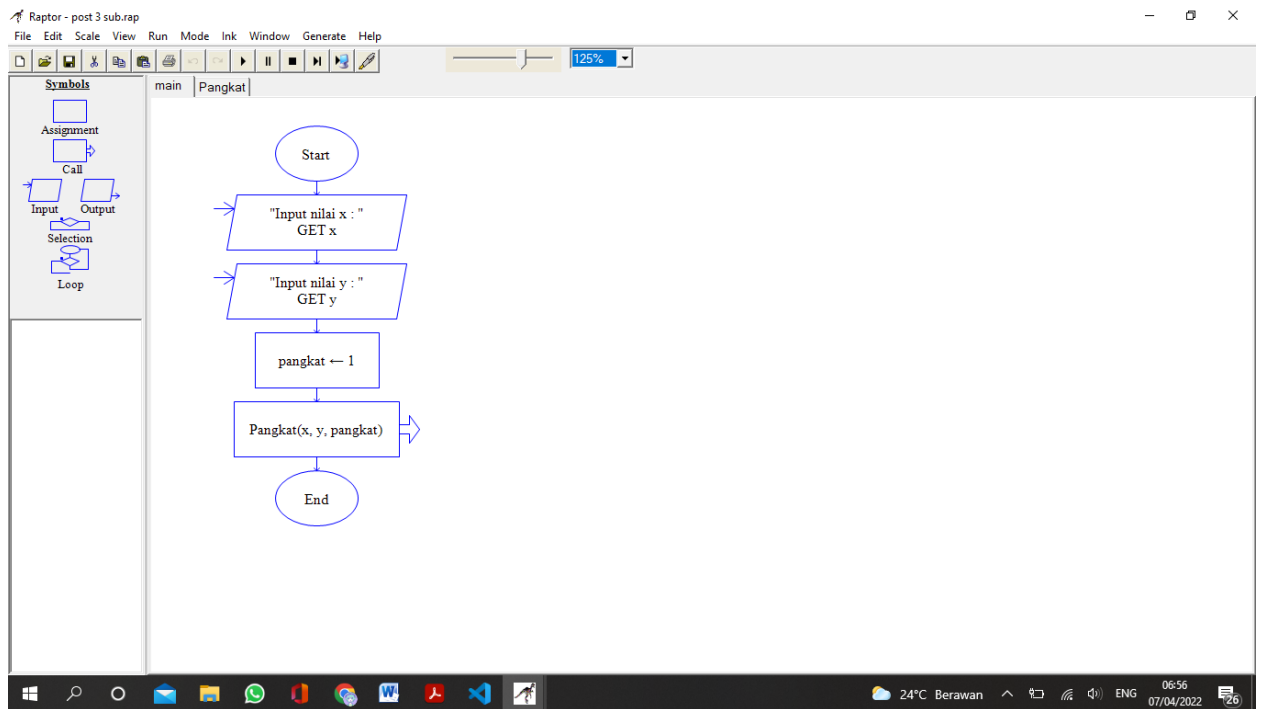


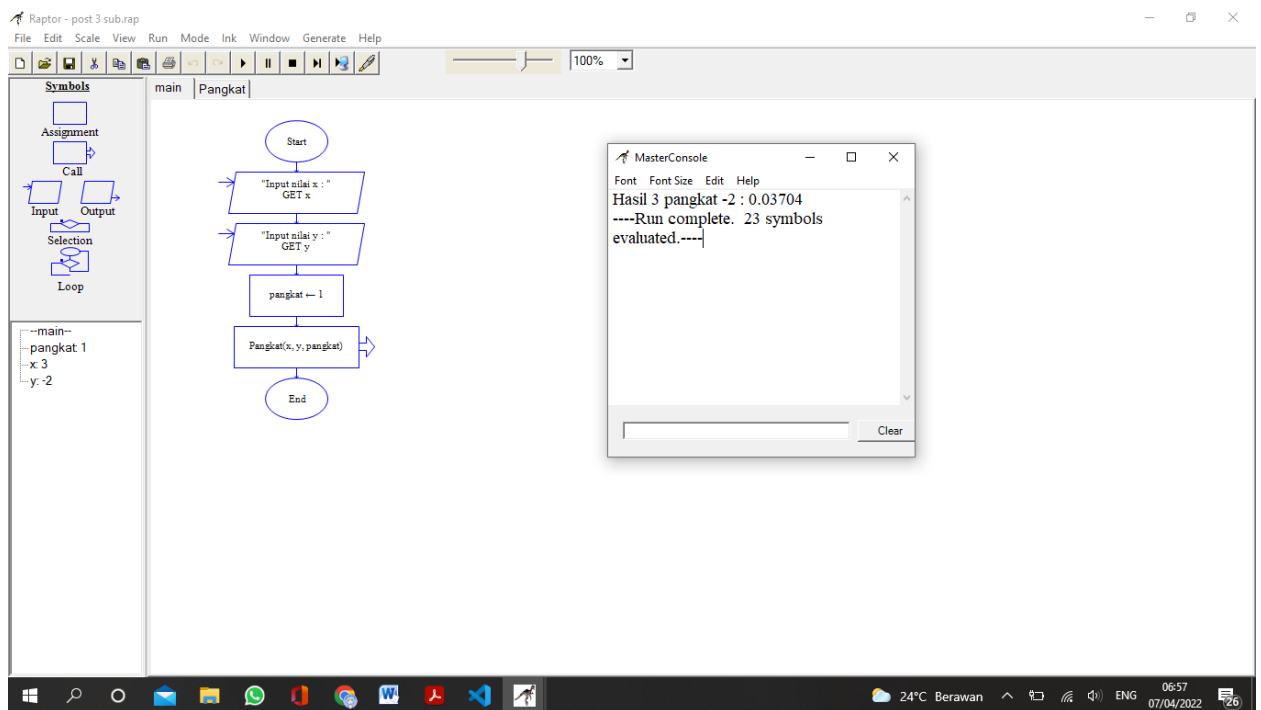
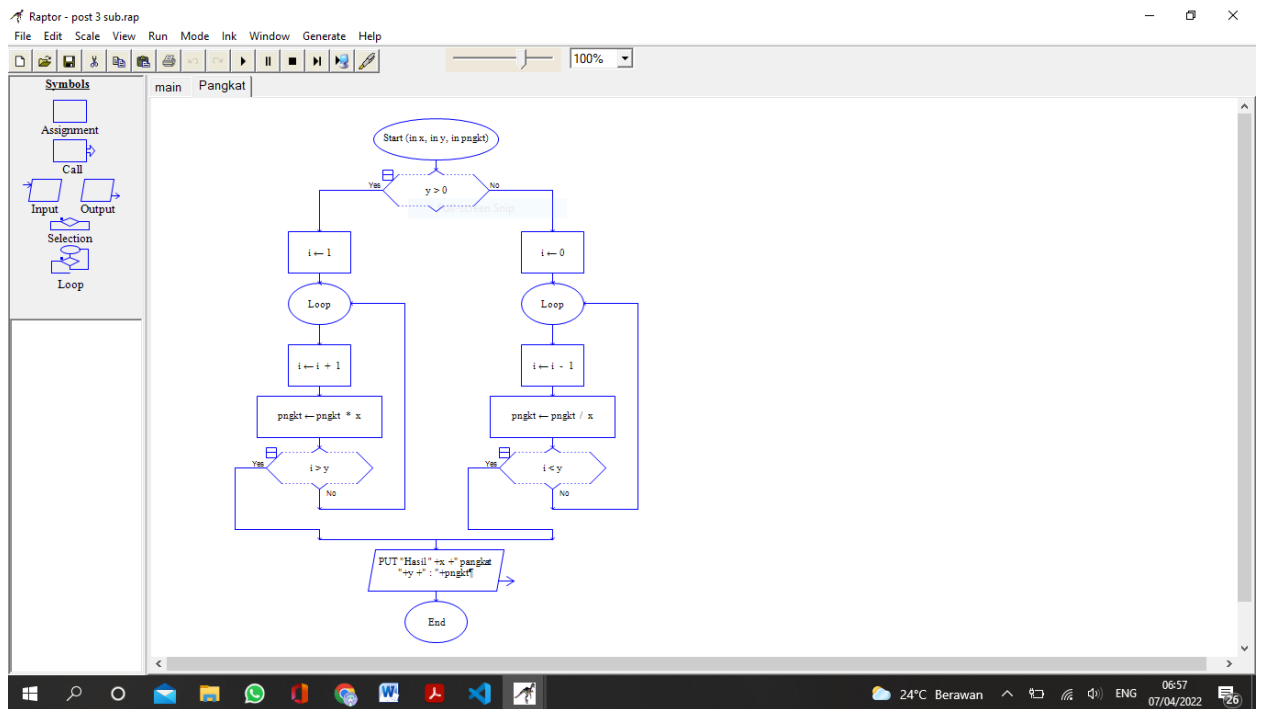
POSTEST 3

1. Screenshot flowchart raptor tanpa sub program



2. Screenshot flowchart raptor dengan sub program





3. Screenshot program C++ tanpa sub program

```
1 #include <iostream>
2 using namespace std;
3
4 class Loop {
5     friend istream& operator >> (istream&, Loop& input);
6 private:
7     int x, y, i; // input
8     float pangkat=1; // output
9
10 public:
11     float perulangan() {
12         if(y > 0) {
13             for(i=1; i<=y; i++)
14                 pangkat*=x;
15         }
16         else {
17             for(i=0; i>y; i--)
18                 pangkat/=x;
19         }
20         cout << "Hasil " <<x<< " pangkat "<<y<< " : "<<pangkat;
21         return 0;
22     }
23 };
24
25 istream& operator >> (istream& in, Loop& input) {
26     cout << "Input nilai x : "; in >>input.x;
27     cout << "Input nilai y : "; in >>input.y;
28     input.perulangan();
29     return in;
30 }
31
32 int main() {
33     Loop x;
```

```
22 }
23 };
24
25 istream& operator >> (istream& in, Loop& input) {
26     cout << "Input nilai x : "; in >>input.x;
27     cout << "Input nilai y : "; in >>input.y;
28     input.perulangan();
29     return in;
30 }
31
32 int main() {
33     Loop x;
34     cin >> x;
35     return 0;
36 }
```

Hasil running :

The screenshot shows the Visual Studio Code editor with a C++ file named `postest 3.cpp`. The code defines a custom operator `>>` for an `istream&` object, which reads input into a `Loop&` object and calls its `perulangan()` method. The terminal shows the program being executed, with input values 5 and 3, resulting in the output "Hasil 5 pangkat 3 : 125".

```
22 }
23 };
24
25 istream& operator >> (istream& in, Loop& input) {
26     cout << "Input nilai x : "; in >> input.x;
27     cout << "Input nilai y : "; in >> input.y;
28     input.perulangan();
29     return in;
30 }
```

```
PS F:\Collage\Sem 2\PRATIUM\ALPRO> & 'c:\Users\user\.vscode\extensions\ms-vscode.cpptools-1.9.7\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-1c12Fn5w.4vo' '--stdout=Microsoft-MIEngine-Out-u2Ft5tz.ega' '--stderr=Microsoft-MIEngine-Error-hh2o1ona.4mi' '--pid=Microsoft-MIEngine-Pid-gdxw2nb1.vmb' '--dbgExe=c:\msys64\mingw64\bin\gdb.exe' '--interpreter=mi'
Input nilai x : 5
Input nilai y : 3
Hasil 5 pangkat 3 : 125
PS F:\Collage\Sem 2\PRATIUM\ALPRO>
```

4. Screenshot program C++ dengan sub program

The screenshot shows the Visual Studio Code editor with a C++ file named `postest 3 sub.cpp`. The code includes the `Pangkat.h` header and defines the `main` function, which creates a `Loop` object, reads input values for `x` and `y`, and returns 0.

```
1 #include <iostream>
2 #include "Pangkat.h"
3 using namespace std;
4
5 int main() {
6     Loop x;
7     cin >> x;
8     return 0;
9 }
```

Header "Pangkat.h" :

```
Pertemuan 3 > Postest > h Pangkat.h > % operator > (istream & Loop &)
```

```
1 using namespace std;
2
3 class Loop {
4     friend istream& operator >> (istream&, Loop& input);
5 private:
6     int x, y, i; // input
7     float pangkat=1; // output
8
9 public:
10    float perulangan() {
11        if(y > 0) {
12            for(i=1; i<=y; i++)
13                pangkat*=x;
14        }
15        else {
16            for(i=0; i>y; i--)
17                pangkat/=x;
18        }
19        cout << "Hasil " <<x<< " pangkat "<<y<< " : "<<pangkat;
20        return 0;
21    }
22 };
23
24 istream& operator >> (istream& in, Loop& input) {
25     cout << "Input nilai x : "; in >>input.x;
26     cout << "Input nilai y : "; in >>input.y;
27     input.perulangan();
28     return in;
29 }
```

Hasil running :

```
Pertemuan 3 > Postest > C- postest 3 sub.cpp > main()
```

```
1 #include <iostream>
2 #include "Pangkat.h"
3 using namespace std;
4
5 int main() {
6     Loop x;
7     cin >> x;
8     return 0;
9 }
```

Windows PowerShell
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS F:\Collage\Sem 2\PRAKTIKUM\ALPRO> & 'c:\Users\user\.vscode\extensions\ms-vscode.cpptools-1.9.7\debugAdapters\bin\WindowsDebuglauncher.exe' '--stdin-Microsoft-MIEngine-In-vm80Flb4.4p4' '--stdout-Microsoft-MIEngine-Out-kq3hobuz.jsy' '--stderr-Microsoft-MIEngine-Error-m0ohfhl1.4c0' '--pid-Microsoft-MIEngine-Pid-numhtqg.oij' '--dbgExe-c:\msys64\mingw64\bin\gdb.exe' '--interpreter-mi'
Input nilai x : 7
Input nilai y : -3
Hasil 7 pangkat -3 : 0.00291545
PS F:\Collage\Sem 2\PRAKTIKUM\ALPRO>
```