```
#include <iostream>
                                      NAMA
                                                   :
                                                          OKTAVIAN AJI T.A
                                      KELAS
#include <conio.h>
                                                          03TPLP020 / V.302
#include <stdlib.h>
                                      NIM
                                                          181011402092
#include <windows.h>
using namespace std;
char pilih;
int jmlh;
void DELAY();
void AWAL();
void INSERT();
void DELETEQ();
void MENU();
struct node{
 char kar;
 node *next;
};
node *tail, *now, *head;
int main() {
AWAL();
MENU();
jmlh = 0;
system("cls");
getch();
}
void gotoxy(int x, int y){
```

```
COORD coord;
 coord.X = x;
 coord.Y = y;
 SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), coord);
}
void DELAY(){
for(int y = 1; y < 100; y++)
for(int x = 1; x < 100; x++)
for(int p = 1; p < 100; p++)
cout<<"";
}
void AWAL(){
tail = NULL;
head = NULL;
}
void PUSH(char ch){
 now = new node;
 if(head == NULL){
  now -> kar = ch;
  now -> next = NULL;
  tail = now;
  head = now;
}
 else{
  now -> kar = ch;
  now -> next = NULL;
  tail -> next = now;
```

```
tail = now;
}
}
void INSERT(){
int i;
 char temp;
gotoxy(1,6);
cout<<"
 gotoxy(1,8);
cout<<"
gotoxy(1,6);
 cout<<"Masukkan Karakter: ";
 cin>>temp;
 gotoxy(1,6);
cout<<"
 PUSH(temp);
for(i = 1; i <= 75-jmlh*6; i++){
  gotoxy(i+1,20);cout<<" O";
  gotoxy(i,21); cout<<"=("<<now->kar<<")=";
  gotoxy(i+1,22);cout<<"| |";
  DELAY();
 if(i != 75-jmlh*6){
  gotoxy(i+1,20);cout<<" ";
  gotoxy(i,21);cout<<"
  gotoxy(i+1,22);cout<<" ";
 }
}
}
```

```
void DELETEQ(){
 if(head == NULL){
  gotoxy(1,8); cout<<"antrean kosong!";</pre>
  DELAY();
}
 else{
 jmlh = jmlh - 1;
  char delete_element = head -> kar;
  node *temp;
  temp = head;
  head = head -> next;
  delete temp;
 for(int i = 69; i <= 76; i++){
   gotoxy(i+1,20); cout<<" O";
  gotoxy(i,21); cout<<"=("<<delete_element<<")=";
   gotoxy(i+1,22); cout<<"| |";
   DELAY();
   gotoxy(i+1,20); cout<<" ";
   gotoxy(i,21); cout<<" ";
   gotoxy(i+1,22); cout<<" ";
  }
  int by k = 0;
  while(byk != jmlh){
   byk = byk + 1;
   for(int i = 69-byk*6; i \leq 75-byk*6; i++){
    gotoxy(i+1,20); cout<<" O";
    gotoxy(i,21); cout<<"=("<<head->kar<<")=";
    gotoxy(i+1,22); cout<<"| |";
    DELAY();
```

```
if(i != 75-byk*6){
     gotoxy(i+1,20); cout<<" ";
     gotoxy(i,21); cout<<"
     gotoxy(i+1,22); cout<<" ";
    }
   }
  }
}
}
void MENU(){
 gotoxy(1,0);cout<<"Animasi Queue";</pre>
 gotoxy(1,1);cout<<"1.Insert Queue";</pre>
 gotoxy(1,2);cout<<"2.Delete Queue";
 gotoxy(1,3);cout<<"3.Exit";</pre>
 do{
  gotoxy(1,4);cout<<"Masukkan Pilihan Anda [1/2/3]: ";
  gotoxy(32,4);cin>>pilih;
  gotoxy(32,4);cout<<" ";
  switch(pilih){
   case '1':
    if(jmlh < 10){
     jmlh = jmlh+1;
     INSERT();
    }
    else{
     gotoxy(1,8); cout<<"antrean penuh !";</pre>
     DELAY();
     gotoxy(1,8); cout<<" ";
    }
```

```
break;
case '2':
DELETEQ();
break;
case '3':
exit(1);
break;
}
while(1);
}
```

