DHRUVA·M

1BM19CS049

```c
int priority (char ch)
{
    switch (ch)
    {
        case '+' :
        case '-' : return (1);
        case '*' :
        case '/' : return (2);
        case '^' : return (3);
        default : return (0);
    }
}

int main (int argc, char **argv)
{
    char infix [100];
    int i, item;
    printf (" Enter infix expression: ");
    scanf (" %s", infix);
    printf (" Expression : %s", infix);
    printf (" \n Postfix : ");
    i = 0;
```

```
while ( infix [i]1 = '\0')
{
    switch ( infix [i])
    {
        case '(' : push ( infix [i]),
                   break,
        case ')' : while (( item = pop()) != '(')
                   printf ("%c", item);
                   break,
        case '+' : write
        case '-' : write
        case '*' : write : thredels.
        case '/' :
        case '^' :
        while (! stackempty() &&
        priority ( infix [i]) <= priority (stacktop())
        {
            item = pop (),
            printf ("%c", item);
        }
        push ( infix [i]),
        break,
        default : printf ("%c", infix [i]),
        break,
    }
}
```

```
        i++;
    }

    while ( ! stack empty ())
    {
        char item;
        item = pop ()
        printf ("%c", item);
    }
    printf (" \n");
    return 0;
}
```