WEEK 2- Infix to postfix

```
#include<stdio.h>
#include<ctype.h>
char stack[100];
int top = -1;
void push(char y)
{
  stack[++top] = y;
}
char pop()
  if(top == -1)
    return -1;
  else
    return stack[top--];
}
int precedence(char y)
{
  if(y == '(')
    return 0;
  if(y == '+' | | y == '-')
    return 1;
  if(y == '*' | | y == '/')
    return 2;
  return 0;
}
```

```
int main()
{
  char exp[100];
  char *ex, y;
  printf("Enter infix expression : ");
  scanf("%s",exp);
  printf("postfix expression is:\n");
  printf("\n");
  ex = exp;
  while(*ex != '\0')
  {
    if(isalnum(*ex))
      printf("%c ",*ex);
    else if(*ex == '(')
       push(*ex);
    else if(*ex == ')')
    {
      while((y = pop()) != '(')
         printf("%c ", y);
    }
    else
    {
       while(precedence(stack[top]) >= precedence(*ex))
         printf("%c ",pop());
       push(*ex);
    }
    ex++;
  }
```

```
while(top != -1)
{
    printf("%c",pop());
}return 0;

Enter infix expression : ((a+b)*(c-d))/e
postfix expression is:
a b + c d - * e /
...Program finished with exit code 0
Press ENTER to exit console.
```