Quinazolin-4-one is a fused ring heterocyclic compound, and exhibits a broad spectrum of pharmacological activities like antitubercular, anticancer, antibacterial, antifungal, anti HIV, antiinflammatory and antihypertensive activities.

In scheme –I anthranilic acid was cyclized with chloroacetyl chloride to get 2- chloromethyl-4-(H)-3, 1-benzoxazin-4-one, which was condensed with various aromatic amines to get the corresponding 3-substituted quinazolin-4-ones.

In scheme –II, 3-substituted quinazolin-4-ones were reacted with hexamine to get the corresponding 2-aminomethyl quinazolin-4-ones, which upon reacting with various aldehydes afforded Schiff bases.

The synthesized compounds were screened for anticancer activity, against Ehrlich Ascites Carcinoma, by in vitro cell counting method using Swiss albino mice.

Amongst the compounds synthesized, 3-(4-methoxyphenyl)-2-({[-(2-nitrophenyl) methylene] amino}methyl)quinazolin-4(3H)-one was found to be the most active.

The yields of the compounds were found to be in the range of 40 - 85%.

The compounds were characterized by the physical constants by FT-IR, 1H NMR

and Mass spectra.