**PROGRAM 5: Solution of first order differential equation and plotting the graphs**

# Solve   dy/dx =  xy

# MATLAB code:

# https://lh6.googleusercontent.com/KhCKbfBQxxElVw-oAM_wApPjwuFtkLTFTCaKqS2z9HkH3xTbgmjYPJZoaHv0kGlVCM7wBMwwcPTVk_FhHTSr14_BcuwDDWevMHSEOJG8gCGyM3becLTkPk0RhhybJ0D1DExtKT3aOp1OoqbGa0yyD9sIzYtt9lKPvBsYPvGxppl98ZHLWBfNlhXBJ3Rq5FCqLGOJ7iHF4Q

# Syntax to plot the graph:

# https://lh3.googleusercontent.com/pMDLncN9QjbY5wzBJVi-V5uNk52Mg4VxK381U6BiiW5RLczKFlWG9Z_5l1EuwH7pjCeoAVFiAOCXNH_RsxtLwxvSOvb2J7JqAjfsRcq70lQMzkXjXZfP6vlaTJEdctnQjBniqZtOM7uP4lmQBcyuwEfm49KJ6Hw4V9RaMiKIjMVx8t3VKOdlMVjDUqU4XoVbLKebVUQ0mw

# Solve   https://lh3.googleusercontent.com/hGS9qcYfyOLr_HPq3jOKlivvCGsvGoJAsnGrCTZm1OIOSE4ChMJOjTWkqRpBcV_SmsnwDluW8sRwL8oLVr47NprlHOZiKDz2VU_FTSPSNx7v7GbTvmRICd8lu6YcT9ZNQ1rJELckcdUOGONgqAeS8IW-eInje08h0DziV9gjxomff5HZzbqF7x9uBVukV7e7eIMLF1YZhg

# 

# MATLAB code:

# https://lh3.googleusercontent.com/ncQj0a8DcxYU59piOuOe9s0gcAFqQDHQLY1Vf3nZDDLnQNCb2Y8P2Q3HEmVnUx8_zxD5nv0uMMC5UBo9l8S3jox4OqPmeSKJ9clMi7J2NzBwICGWx5mKhbRhAYRxM-zEhca0LVdkxRXzv_zvVTFYvqcBi5s98Eytst7UqDrprtRikFrMPo9YnbGQZR0rwwbK0laIGTs6EQ

# 

# Syntax to plot the graph :

# 

# https://lh4.googleusercontent.com/vdEL_PXgUgT8c6outHwgytOtpQbEnKht1smyx2dy3qlW0LUZo6WvGH_VgNayEiJ9yUR7xFd6lHekWoFpSTnFcpgVU_v3W-ctNIvEJiG83RmC_LCs5S4lkTSctQNaPF1jWADh3zJi7CzQzy9yOXbhZ75kj8B3KYLPXQTuUajGXF4EmXH5r7gk3lqTVuxxIXDPdYLMIqNaqg

# Solve   https://lh4.googleusercontent.com/EML9XtxyjhYGU9HkVaH-JygU8gYi4SovWbiEbCUhpVuv5HvZNnKvWlV_gH70R8GgpnLMbePVJe5pTmhNf5Ze5pElO20NHM3eCJFUg3Zs_W-MQKG1-gZXc7LXsVvMNuM5xGUhPL8yy5xxXBPLcPal-Sv77-6u4I-fliV3A3swn7rSYW3I0D_DHmHllAxB_LgITQNgH0ZM-g

# MATLAB code:

# https://lh4.googleusercontent.com/6h2Y7dBRRIPrVbhvvNSLM88F21CuqMf-B1HQBDo6vi2p42QdQ2dYnrqhZHqNUuLAHwPzbwVFJTY7VNMNfBGjPy47PKFRyH-wGP6lbOOW3VNcDCuhAmMXMWAu-9IxvjILCsqdw53mzCb5e_ETxTO-9GnsRONVYFA-y2f9dv6jsFzBp99ntDNijkE4R9cV07fj7V0-QD0sgg

# Syntax to plot the graph:

# https://lh4.googleusercontent.com/7cfFfETLymj8k4nxxY6NVqvyEieIrhLd0ZgHaxx76pahAQBCicVKSFzIeWOytL-bjWKmxY2VRURE2Am7E39JtnlJuQ9RZiqKLjE_0aWg9IzKHXtbfS5Q_D7iuZXqCzIiw7I5FMzgqcWIWolqm4ps6-xYqZqCWrzPQ6TF3UuKC4cqp5w0ELCjvsxTy49PHkzdRG3_hYoqzA