Q.No.	DAY - 69
430	**Example 10.18** $\text{Solve}\left(y+\sqrt{x^2+y^2}\right)dx-xdy=0,\quad y(1)=0$.
431	**Example 10.19** $\text{Solve }(2x+3y)dx+(y-x)dy=0$.
432	**Example 10.21** $\text{Solve}\left(1+2e^{x/y}\right)dx+2e^{x/y}\left(1-\dfrac{x}{y}\right)dy=0$.
433	## EXERCISE 10.6 Solve the following differential equations: 1. $\left[x+y\cos\left(\dfrac{y}{x}\right)\right]dx=x\cos\left(\dfrac{y}{x}\right)dy$
434	Solve the following differential equations: 5. $\left(y^2-2xy\right)dx=\left(x^2-2xy\right)dy$
435	Solve the following differential equations: 7. $\left(1+3e^{\frac{y}{x}}\right)dy+3e^{\frac{y}{x}}\left(1-\dfrac{y}{x}\right)dx=0$, given that $y=0$ when $x=1$
436	Solve the following differential equations: 8. $\left(x^2+y^2\right)dy=xy\,dx$. It is given that $y(1)=1$ and $y(x_0)=e$. Find the value of x_0.