```
function [output] = menuApproximateIntegrals(x,y)
n=length(y);
msg = "Choose your method to calculate approximate integral: ";
opts = ["Trapezoidal(applicable for all)" "Simpsons One Third(applicable for
even no of sub intervals)" "Simpsons Three Eighth(applicable for multiple of
3 no of sub intervals" "Choose Best"];
choice = menu(msg,opts);
switch choice
    case 1
       output=trapezoidalFunction(x,y);
    case 2
        output=simpsonsOneThird(x,y);
    case 3
        output=simpsonsThreeEighth(x,y);
    case 4
        if (rem((n-1),2))==0
            output=simpsonsOneThird(x,y);
            disp('using simpsons one third rule');
        elseif (rem((n-1),3))==0
            output=simpsonsThreeEighth(x,y);
            disp('using simpsons three eighth rule');
        else
             output=trapezoidalFunction(x,y);
             disp('using trapezoidal method');
        end
    otherwise
        disp('invalid!!')
end
disp(['Approximate Integral' output]);
end
```

```
Not enough input arguments.

Error in menuApproximateIntegrals (line 2)
n=length(y);
```

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