

## Assignment 4

(Decision and case control structure.)

1. Input the values for x and y. Store the absolute difference of x and y in y, where the absolute difference is  $(x-y)$  or  $(y-x)$ , whichever is positive. Do not use the abs or fabs function in your solution.
2. Input three integers and print the largest among them using if—else structure.
3. Enter a character and check whether it is a digit, a special character, capital letter or small letter.

Use switch case for the following programs.

4. Input a number and print whether it is even or odd.
5. Write an interactive program that contains an if statement that may be used to compute the area of square ( $\text{area}=\text{side}^2$ ) or a circle ( $\text{area}=\pi \times \text{radius}^2$ ) after prompting the user to type the first character of the figure names (S or C).
6. Input marks obtained by a student in five different subjects. Total mark is 500. Calculate the percentage obtained. Print the grade of the student as per the following.

If %	$\geq 90$	: O Grade
	$\geq 80$	: E Grade
	$\geq 70$	: A Grade
	$\geq 60$	: B Grade
	$\geq 50$	: C Grade
	$\geq 40$	: D Grade
	$< 40$	: Fail.