

Lab 7

Conditional Statements (Cont.) And Iterations in C

Marks: 5

Question 01:

Write a program that accept a sentence and count how many a's are present in it. The inputted sentence must terminate by a period "."

```
Write a sentence to count a's:  
Those who dare to fail miserably can achieve greatly.  
This sentence has 6 a's
```

Question 02:

Write a program which prints the integers from 500 to 1000 with five integers per line using one for loop and one if statement. *Hint:* use the % operator.

```
500 501 502 503 504  
505 506 507 508 509  
510 511 512 513 514  
515 516 517 518 519  
520 521 522 523 524  
525 526 527 528 529  
530 531 532 533 534  
535 536 537 538 539  
540 541 542 543 544  
545 546 547 548 549  
550 551 552 553 554  
555 556 557 558 559  
560 561 562 563 564  
565 566 567 568 569  
570 571 572 573 574  
575 576 577 578 579  
580 581 582 583 584  
585 586 587 588 589  
590 591 592 593 594  
595 596 597 598 599
```

Question 03:

Write a program that raise 'a' to the power 'b' and store in exp. where 'a' and 'b' are user inputs.

```
Enter the value of base: 3  
Enter the value of power: 2  
3 raise to the power 2 is 9
```

Question 04:

Draw the following ex pattern, program should take an input N from the user and prints a $(2N + 1)$ -by- $(2N + 1)$ like the one below. Hint: Use two for loops and one if-else statement.

```
enter ex-N value
5
* - - - - - - - - *
- * - - - - - * -
- - * - - - - * -
- - - * - - - * -
- - - - * - - * -
- - - - - * - - *
- - - - - * - - *
- - - * - - - * -
- - * - - - - * -
- * - - - - - * -
* - - - - - - - *
```

Question 05:

Write a program that accept a dialing code and return the corresponding country and city name.

```
Enter the dialing code: 92213
Country: Pakistan
City: Karachi
```