



## **ASSIGNMENT**

1. Write a program to accept a 5 digit number and check whether it is a numeric palindrome. (If reversed number is same as entered number it is called palindrome).
2. Write a program to display number of days in the given year. Check condition for leap year. A year is a leap year if it is divisible by 4 but not by 100, except that years divisible by 400 are leap years.
  - a. Without using logical operators
  - b. Using logical operators
  - c. Conditional operator
3. Write a program that will calculate the price for a quantity entered from the keyboard, given that the unit price is Rs.5 and there is a discount of 10 percent for quantities over 30 and a 15 percent discount for quantities over 50.



## TWISTERS

1. #include <stdio.h>

int main(void)

{

int a,b,c;

a=printf("\t \"SunBeam\" - \"IT Park\" \t");

b=printf("\t \"Pune\" \t");

c=printf("\n a = %d",a)+ ++b;

printf(" c = %d",c);

return 0;

}

A. "SunBeam" - 'IT Park' 'Pune'

a = 26 c = 19

B. "SunBeam" - 'IT Park' 'Pune'

a = 32 c = 14

C. "SunBeam" - 'IT Park' 'Pune'

a = 23 c = 19

D. Compile time error

**Answer: A**



2. #include <stdio.h>

int main( void )

{

int num1 = 1, num2 , num3 = 5;

num2=--num1;

int ans1 = num1-- || num2++ || num3++;

int ans2 = ++num1 && num2++ && num3++;

printf("num2=%d num3=%d ", num2,num3);

printf("(ans1-ans2)=%d ", ans1-ans2);

return 0;

}

A. num2=1 num3=6 (ans1-ans2)=1

B. num2=0 num3=5 (ans1-ans2)=0

C. num2=1 num3=5 (ans1-ans2)=0

D. num2=1 num3=6 (ans1-ans2)=0

**Answer: A**

3. #include<stdio.h>

int main(void)

{

int one, two = 1, three;

if(three = (two == 0)); one = 5; two = 3;

printf("%d %d %d\n", three, two, one);

return 0;

}

A. 1 1 5

B. 0 3 garbage value

C. 0 1 5

D. 0 3 5

**Answer: D**



4. #include<stdio.h>

int main(void)

{

int a = 1, b = 1, c;

if( c = b < 0) a = 5;

else if( b == 0) a = 7;

else a = 9;

printf("%d %d\n", a, c);

return 0;

}

A. 9 0

B. 7 0

C. 5 0

D. Compiler error

E. None of the above

**Answer: A**