**HOLIDAY HOME WORK CLASS XI**

**AUTUMN BREAK**

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| 1. Convert binary number 101010 to decimal.
2. Convert the following:
3. 11011110101110­2  to hexadecimal
4. FACE16to binary
5. EB4A16 to decimal
6. B2F16to Octal
7. 36748to binary
8. (125.625)10  to binary
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| 1. Convert binary number 11011110101110 to Hexadecimal.
2. Complete the sequence of following octal numbers: 525, 526, 527, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_.
3. Convert binary number 11111011110101 to octal.
4. ADD the binary numbers 110101 AND 1011111
5. Predict the output and explain the reason behind output of every statement :

5<5 or 105<10 or 55<(10 or 5)1. What will be the output of the following code?

 x, y=2, 6 x, y=y, x+2 print(x, y)1. What will be the output of the following:

*num =8795**tnum= num**x=0**while tnum :*  *d= tnum %10*  *tnum= tnum /10*  *x= x \* 10 + d* *print (x)*1. Write a program in python to print the following pattern :

111111111111111 11. Write a program in python to print the largest among three numbers . 12. Write a program that reads a string and checks whether it is a palindrome string or not.13.Write a program to find sum of the series: s=1+x +x2+ x3+……xn |
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