

**Submitted by: Submitted to:**

**NAME : Hiya Chopra Mr. Lalit Kane**

**SAP : 500083441**

**ROLL NO. : R214220519**

**BATCH : 21**

**Exercise 1**

1. **Evaluate Following And Express The Results: 5>2  
   5 == 2  
   5=2**
2. **Determine whether the given number is even or odd.**
3. **Marks of a student in five subjective are acquired. Determine average  
   marks and grade.  
   O - 91-100  
   A+ 81 -90  
   A 71-80  
   B+ 61-70  
   B 51 – 60  
   C+ 41 - 50  
   C 35 - 40  
   Fails otherwise**
4. **Evaluate 15 & 27 and verify your result**
5. **Evaluate 15|27 and verify your result**
6. **Evaluate 15^27 and verify your result**
7. **Multiply 3 by 4 using shift bitwise operator**

**8. Divide 64 By 8 Using Shift Bitwise Operator**

**CODE**

**Program 1**

**print(5>2) #TRUE**

**print(5==2) #FALSE**

**print(5=2) #Error**

**Program 2**

**n=int(input("Enter theNumber:"))**

**if(n%2)==0:**

**print("{0} is Even Number".format(n))**

**else:**

**print("{0} is Odd Number".format(n))**

**Program 3**

**sub1=int(input("Enter marks of the first subject: "))**

**sub2=int(input("Enter marks of the second subject: "))**

**sub3=int(input("Enter marks of the third subject: "))**

**sub4=int(input("Enter marks of the fourth subject: "))**

**sub5=int(input("Enter marks of the fifth subject: "))**

**avg=(sub1+sub2+sub3+sub4+sub4)/5**

**if(avg>=91):**

**print("Grade: O")**

**elif(avg>=81&avg<=90):**

**print("Grade: A+")**

**elif(avg>=71&avg<=80):**

**print("Grade: A")**

**elif(avg>=61&avg<=70):**

**print("Grade: B+")**

**elif(avg>=51&avg<=60):**

**print("Grade: B")**

**elif(avg>=41&avg<=50):**

**print("Grade: C+")**

**elif(avg>=35&avg<=40):**

**print("Grade: C")**

**else:**

**print("FAIL")**

**Program 4**

**print(15 & 27)**

**Program 5**

**print(15 | 27)**

**Program 6**

**print(15 ^ 27)**

**Program 7**

**def multiply(n, m):**

**ans = 0**

**count = 0**

**while (m):**

**if (m % 2 == 1):**

**ans += n << count**

**count += 1**

**m = int(m/2)**

**return ans**

**if \_\_name\_\_ == '\_\_main\_\_':**

**n = 3**

**m = 4**

**print(multiply(n, m))**

**Program 8**

**import math**

**def Div\_by\_8(n):**

**return (((n >> 3) << 3) == n)**

**n = 16**

**if (Div\_by\_8(n)):**

**print("YES")**

**else:**

**print("NO")**