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| **Experiment 4 :** Write a program to perform a raise to power b and perform decision table testing |
| **Solution:**  #include<stdio.h>  int main()  {  float basic\_salary, da, ta, ma = 100, it = 700, pf = 780,gross\_salary;  printf("Basic Salary: ");  scanf("%f", &basic\_salary);  if(basic\_salary <= 15000)  {  da = 0.6\*basic\_salary;  ta = 0.1\*basic\_salary;  }  else if(basic\_salary <= 20000)  {  da = 0.8\*basic\_salary;  ta = 0.2\*basic\_salary;  }  else  {  da = 0.9\*basic\_salary;  ta = 0.3\*basic\_salary;  }  gross\_salary = basic\_salary + da + ta + ma - it - pf;  printf("Gross Salary: %f\n\n", gross\_salary);  return 0;  }  **Conditions are:**  C1: a = 0, b = 0  C2: a = -ve, b = +ve even int  C3: a = +ve, b = -ve  C4: a = -ve, b = -ve even int  C5: a = +ve, b = +ve  C6: a = 0, b = int  C7: b = 0, a = int  C8: a = -ve, b = +ve odd int  C9: a = -ve, b = -ve odd int  **Actions:**  A1: Domain error  A2: Negative output  A3: Output =1  A4: Positive output  A5: Output = 0 |