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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()  {  int a = 0, b = 0, i, temp;  float temp2;  while(1)x  {  printf("Enter a: ");  scanf("%d", &a);  printf("Enter b: ");  scanf("%d", &b);  if(a == 0 && b == 0)  {  printf("Domain Error\n\n");  }  else if(a == 0 && b != 0)  {  printf("Answer: %d\n\n", 0);  }  else if(a != 0 && b == 0)  {  printf("Answer: %d\n\n", 1);  }  else if(b > 0)  {  temp = a;  for(i = 1; i < b; i++)  {  temp \*= a;  Software Testing – Lab Manual  [7TD1 – B][smit kachhad][91800104011]  }  printf("Answer: %d\n\n", temp);  }  else  {  temp2 = (1.00/a);  b = -1 \* b;  for(i = 1; i < b; i++)  {  temp2 \*= (1.00/a);  }  printf("Answer: %f\n\n", temp2);  }  }  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 |