lab3

Date:24/09/2025

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// Q.24
#include <stdio.h>
int main()
{  float y, x, c = 1;
   int n;
   printf("y=1+x\t\t; n=1\n");
   printf("y=1+x/n\t\t; n=2\n");
   printf("y=1+(x^n)\t; n=3\n");
   printf("y=1+nx\t\t; n>3 or n<1\n");
   printf("enter value of n=");
   scanf("%d", &n);
   printf("enter value of x=");
   scanf("%f", &x);
   switch (n)
   {   case 1:
      y = 1 + x;
      printf("y=1+%f=%f\n", x, y);
      break;
   case 2:
      y = 1 + (x / n);
      printf("y=1+%f/%d=%f\n", x, n, y);
      break;
   case 3:
      for (int i = 1; i <= n; i++)
      {
         c = (c * x);
      }
      y = 1 + c;
```

```
    printf("y=1+%f=%f\n", x, y);
    break;
  default:
    y = 1 + (n * x);
    printf("y=1+%d*%f=%f\n", n, x, y);
  }
  return 0;
}
```