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Q1:-
#include<stdio.h>
int main(){
    int i,n;
    for(i=1;i!=0;i++)
    {
        printf("Enter the month number:-\n");
        scanf("%d",&n);
        switch(n)
        {
            case 1:
                printf("Month is january and number of days in that month is 31\n");
                break;
            case 2:
                printf("Month is february and number of days in that month is 28/29\n");
                break;
            case 3:
                printf("Month is march and number of days in that month is 31\n");
                break;
            case 4:
                printf("Month is april and number of days in that month is 30\n");
                break;
            case 5:
                printf("Month is may and number of days in that month is 31\n");
                break;
            case 6:
                printf("Month is june and number of days in that month is 30\n");
                break;
            case 7:
                printf("Month is july and number of days in that month is 31\n");
                break;
            case 8:
                printf("Month is august and number of days in that month is 31\n");
                break;
            case 9:
                printf("Month is september and number of days in that month is 30\n");
                break;
            case 10:
                printf("Month is october and number of days in that month is 31\n");
                break;
            case 11:
                printf("Month is november and number of days in that month is 30\n");
                break;
            case 12:
                printf("Month is december and number of days in that month is 31\n");
                break;
            default:
                printf("Invalid input\n");
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            }
      }
      return 0;
}
Q2:-
#include<stdio.h>
#include<stdlib.h>
int main(){
      int i,x,a,b;
      for(i=1;i!=0;i++)
      {
            printf("\n1-Addition\n2-Subtraction\n3-Multiplication\n4-
Division\n5-Exit\n");
            printf("Enter the number:-\n");
            scanf("%d",&x);
            switch (x)
            {
                  case 1:
                        printf("Enter two numbers:\n");
                        scanf("%d %d",&a,&b);
                        printf("Answer is %d",a+b);
                        break;
                  case 2:
                        printf("Enter two numbers:\n");
                        scanf("%d %d",&a,&b);
                        printf("Answer is %d",a-b);
                        break;
                  case 3:
                        printf("Enter two numbers:\n");
                        scanf("%d %d",&a,&b);
                        printf("Answer is %d",a*b);
                        break;
                  case 4:
                        printf("Enter two numbers:\n");
                        scanf("%d %d",&a,&b);
                        printf("Answer is %d",a/b);
                        break;
                  case 5:
                        exit(0);
                  default:
                        printf("Invalid input\n");
            }
            if(i==6)
            break;
      }
      return 0;
}
Q3:-
#include<stdio.h>
int main(){
      int n;
      printf("Enter a number of a week:\n");
      scanf("%d",&n);
      switch (n)
      {
            case 1:
                  printf("\"When you have a dream, you've got to grab it
and never let go.\"");
                  break;
            case 2:
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                printf("\"There is nothing impossible to they who will
try.\"");
                break;
          case 3:
                printf("\"Keep your face always toward the sunshine, and
shadows will fall behind you.\"");
                break;
          case 4:
              printf("\"The bad news is time flies. The good news is
you're the pilot.\"");
                break;
          case 5:
                printf("\"Life has got all those twists and turns. You've
got to hold on tight and off you go.\"");
                break;
          case 6:
                printf("\"You make a choice: continue living your life
feeling muddled in this abyss of self-misunderstanding, or you find your
identity independent of it. You draw your own box\"");
                break;
          case 7:
                printf("\"Success is not final, failure is not fatal: it
is the courage to continue that counts\"");
                break;
          default:
              printf("invalid");
          }
          return 0;
}
Q4:-
#include<stdio.h>
#include<stdlib.h>
int main(){
     int i,n,l1,l2,l3;
     for(i=1;i!=0;i++)
     {
          printf("\nEnter the following numbers\n");
          printf("\n1-Check whether a given set of three numbers are
lengths of an isosceles triangle or not\n");
        printf("2-Check whether a given set of three numbers are lengths
of an right angled triangle or not\n");
          printf("3-Check whether a given set of three numbers are
equilateral triangle or not\n");
          printf("4-Exit\n");
          scanf("%d",&n);
     switch (n)
     {
          case 1:
                printf("Enter the lengths of a triangle\n");
                scanf("%d %d %d",&l1,&l2,&l3);
                if(l1==l2||l1==l3)
                printf("Isosceles triangle");
                else
                printf("Not a Isosceles triangle");
                break;
          case 2:
                printf("Enter the lengths of a triangle\n");
                scanf("%d %d %d",&l1,&l2,&l3);
                l1=l1*l1;
                l2=l2*l2;
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                        l3=l3*l3;
                        if(l1+l2==l3)
                        printf("Right angled triangle");
                        else if(l1+l3==l2)
                        printf("Right angled triangle");
                        else if(l2+l3==l1)
                        printf("Right angled triangle");
                        else
                        printf("Not a right angled triangle");
                        break;
                case 3:
                        printf("Enter the lengths of a triangle\n");
                        scanf("%d %d %d",&l1,&l2,&l3);
                        if(l1==l2&&l1==l3)
                        printf("Equilateral triangle");
                        else
                        printf("Not a equilateral triangle");
                        break;
                case 4:
                        exit(0);
                }
                if(i==4)
                break;
        }
        return 0;
}
```