

Ans1. #include <stdio.h>

```
int main(void) {
float miles;

printf("Please enter miles:");
scanf("%f", &miles);

float kilometers = miles * 1.6;

printf("%f Kilometers", kilometers);
}
```

Ans2.#include <stdio.h>

```
int main() {

double num;
printf("Enter a number: ");
scanf("%lf", &num);
if (num <= 0.0) {
if (num == 0.0)
printf("You entered 0.");
else
printf("You entered a negative number.");
}
else
printf("You entered a positive number.");

return 0;
}
```

Ans4. #include <stdio.h>

```
void main ()
{
int choice,r,l,w,b,h;
float area;
printf("Input 1 for area of circle\n");
printf("Input 2 for area of rectangle\n");
printf("Input 3 for area of triangle\n");
printf("Input your choice : ");
scanf("%d",&choice);
switch(choice)
{
case 1:
printf("Input radius of the circle : ");
scanf("%d",&r);
area=3.14*r*r;
break;
case 2:
printf("Input length and width of the rectangle : ");
scanf("%d%d",&l,&w);
area=l*w;
```

```

break;
case 3:
printf("Input the base and hight of the triangle :");
scanf("%d%d",&b,&h);
area=.5*b*h;
break;
}
printf("The area is : %f\n",area);
}

```

```

Ans5.#include <stdio.h>
int main() {

```

```

int i, n;

```

```

int t1 = 0, t2 = 1;

```

```

int nextTerm = t1 + t2;

```

```

printf("Enter the number of terms: ");
scanf("%d", &n);

```

```

printf("Fibonacci Series: %d, %d, ", t1, t2);

```

```

for (i = 3; i <= n; ++i) {
printf("%d, ", nextTerm);
t1 = t2;
t2 = nextTerm;
nextTerm = t1 + t2;
}

```

```

return 0;
}

```

```

Ans6.#include <stdio.h>
int main() {
int n;
printf("Enter an integer: ");
scanf("%d", &n);

```

```

for (int i = 1; i <= 10; ++i) {
printf("%d * %d = %d \n", n, i, n * i);
}
return 0;
}

```

```

Ans6.include<stdio.h>

```

```

int main()
{
int i,fact=1,number;
printf("Enter a number: ");
scanf("%d",&number);
for(i=1;i<=number;i++){
fact=fact*i;
}
printf("Factorial of %d is: %d",number,fact);
return 0;
}

```

Ans8.#include <stdio.h>

```

void swap (int *n1, int *n2)
{
int temp;
temp = *n2;
*n2 = *n1;
*n1 = temp;
}

```

```

void main ()
{

```

```

int num1, num2;

```

```

printf("Enter first number:\n");
scanf ("%d", &num1);

```

```

printf("Enter second number:\n");
scanf ("%d", &num2);

```

```

printf("\nBefore Swapping\n");
printf("First number: %d\n", num1);
printf("Second number: %d\n\n", num2);

```

```

swap (&num1, &num2);

```

```

printf("\nAfter Swapping\n");
printf("First number: %d\n", num1);
printf("Second number: %d\n\n", num2);
}

```

Ans9.#include <stdio.h>

```

int main() {
int n, reversed = 0, remainder, original;
printf("Enter an integer: ");
scanf("%d", &n);
original = n;

```

```

while (n != 0) {
remainder = n % 10;

```

```
reversed = reversed * 10 + remainder;
n /= 10;
}

if (original == reversed)
printf("%d is a palindrome.", original);
else
printf("%d is not a palindrome.", original);

return 0;
}
```

Ans10.#include <stdio.h>

```
int
main(void)
{

int i, j;

for(i = 1; i <= 6; ++i) {
for(j = 0; j < i; ++j)

printf("%d", j);
printf("\n");

}

return(0);

}
```