1 **Calculation of simple interest using loops 1 method**

/\* PROGRAM USING while loop Increment statement count=count+1 1st method

Principal amount(p),No.of years (n) & Rate of interest (r) are the inputs throuth the keyboard. Program to calculate Simple interest (si) using the formula si = p \* n \* r / 100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int n;

long int p;

float r;

double si;

int count=1;

while(count<=3)

{

printf("Enter Prinical amount = ");

scanf("%ld",&p);

printf("Enter No. of Years = ");

scanf("%d",&n);

printf("Enter Rate of interest = ");

scanf("%f",&r);

si=p\*n\*r/100;

printf("Simple interest = %lf ",si);

count=count+1;

printf("\n");

}

getch();

}

2 **Calculation of simple interest using loops 2 method**

/\* PROGRAM USING while loop Increment statement count++ 2 nd method

Principal amount(p),No.of years (n) & Rate of interest (r) are the inputs throuth the keyboard. Program to calculate Simple interest (si) using the formula si = p \* n \* r / 100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int n;

long int p;

float r;

double si;

int count=1;

while(count<=3)

{

printf("Enter Prinical amount = ");

scanf("%ld",&p);

printf("Enter No. of Years = ");

scanf("%d",&n);

printf("Enter Rate of interest = ");

scanf("%f",&r);

si=p\*n\*r/100;

printf("Simple interest = %lf ",si);

count++;

printf("\n");

}

getch();

}

3 **Calculation of simple interest using loops 3 method**

/\* PROGRAM USING while loop decrement statement count=cont-1 3 rd method

Principal amount(p),No.of years (n) & Rate of interest (r) are the inputs throuth the keyboard. Program to calculate Simple interest (si) using the formula si = p \* n \* r / 100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int n;

long int p;

float r;

double si;

int count=3;

while(count>0)

{

printf("Enter Prinical amount = ");

scanf("%ld",&p);

printf("Enter No. of Years = ");

scanf("%d",&n);

printf("Enter Rate of interest = ");

scanf("%f",&r);

si=p\*n\*r/100;

printf("Simple interest = %lf ",si);

count=count-1;

printf("\n");

}

getch();

}

4 **Calculation of simple interest using loops 4 method**

/\* PROGRAM USING while loop decrement statement count-- 4 th method

Principal amount(p),No.of years (n) & Rate of interest (r) are the inputs throuth the keyboard. Program to calculate Simple interest (si) using the formula si = p \* n \* r / 100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int n;

long int p;

float r;

double si;

int count=3;

while(count>0)

{

printf("Enter Prinical amount = ");

scanf("%ld",&p);

printf("Enter No. of Years = ");

scanf("%d",&n);

printf("Enter Rate of interest = ");

scanf("%f",&r);

si=p\*n\*r/100;

printf("Simple interest = %lf ",si);

count--;

printf("\n");

}

getch();

}

5 **Program using assignment operator += 5 th method**

/\* PROGRAM USING while loop increment statement count+=1 5 th method

Principal amount(p),No.of years (n) & Rate of interest (r) are the inputs throuth the keyboard. Program to calculate Simple interest (si) using the formula si = p \* n \* r / 100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int n;

long int p;

float r;

double si;

int count=1;

while(count<=3)

{

printf("Enter Prinical amount = ");

scanf("%ld",&p);

printf("Enter No. of Years = ");

scanf("%d",&n);

printf("Enter Rate of interest = ");

scanf("%f",&r);

si=p\*n\*r/100;

printf("Simple interest = %lf ",si);

count +=1;

printf("\n");

}

getch();

}

6 **program using assignment operator -= 6 th method**

/\* PROGRAM USING while loop increment statement count-=1 6 th method

Principal amount(p),No.of years (n) & Rate of interest (r) are the inputs throuth the keyboard. Program to calculate Simple interest (si) using the formula si = p \* n \* r / 100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int n;

long int p;

float r;

double si;

int count=3;

while(count >0)

{

printf("Enter Prinical amount = ");

scanf("%ld",&p);

printf("Enter No. of Years = ");

scanf("%d",&n);

printf("Enter Rate of interest = ");

scanf("%f",&r);

si=p\*n\*r/100;

printf("Simple interest = %lf ",si);

count -=1;

printf("\n");

}

getch();

}

7 **program using loop increment statement in condition 7 th method**

/\* PROGRAM USING while loop increment statement in condition 7 th method

Principal amount(p),No.of years (n) & Rate of interest (r) are the inputs throuth the keyboard. Program to calculate Simple interest (si) using the formula si = p \* n \* r / 100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int n;

long int p;

float r;

double si;

int count=1;

while(count++<=3) /\* coparison first takes & then increment in count\*/

{

printf("Enter Prinical amount = ");

scanf("%ld",&p);

printf("Enter No. of Years = ");

scanf("%d",&n);

printf("Enter Rate of interest = ");

scanf("%f",&r);

si=p\*n\*r/100;

printf("Simple interest = %lf ",si);

printf("\n");

}

getch();

}

8 **program using loop decrement statement in condition 8 th method**

/\* PROGRAM USING while loop decrement statement in condition 8 th method

Principal amount(p),No.of years (n) & Rate of interest (r) are the inputs throuth the keyboard. Program to calculate Simple interest (si) using the formula si = p \* n \* r / 100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int n;

long int p;

float r;

double si;

int count=3;

while(count-->0) /\* coparison first takes & then increment in count\*/

{

printf("Enter Prinical amount = ");

scanf("%ld",&p);

printf("Enter No. of Years = ");

scanf("%d",&n);

printf("Enter Rate of interest = ");

scanf("%f",&r);

si=p\*n\*r/100;

printf("Simple interest = %lf ",si);

printf("\n");

}

getch();

}

9 **program using do - while loop 9 th method**

/\* PROGRAM USING do - while loop 9 th method

Principal amount(p),No.of years (n) & Rate of interest (r) are the inputs throuth the keyboard. Program to calculate Simple interest (si) using the formula si = p \* n \* r / 100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int n;

long int p;

float r;

double si;

int count=0;

do

{

printf("Enter Prinical amount = ");

scanf("%ld",&p);

printf("Enter No. of Years = ");

scanf("%d",&n);

printf("Enter Rate of interest = ");

scanf("%f",&r);

si=p\*n\*r/100;

printf("Simple interest = %lf ",si);

count+=1;

printf("\n");

} while(count<3);

getch();

}

10 **program using odd loop 10 the method**

/\* PROGRAM USING odd loop 10 th method

Principal amount(p),No.of years (n) & Rate of interest (r) are the inputs throuth the keyboard. Program to calculate Simple interest (si) using the formula si = p \* n \* r / 100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int n,num;

long int p;

float r;

double si;

char count='y';

while (count=='y')

{

printf("\nEnter Prinical amount = ");

scanf("%ld",&p);

printf("Enter No. of Years = ");

scanf("%d",&n);

printf("Enter Rate of interest = ");

scanf("%f",&r);

si=p\*n\*r/100;

printf("Simple interest = %lf ",si);

printf("\nDo you want to continue");

printf("\nEnter choice 1 for continue & any other num to stop program");

scanf("%d",&num);

count=(num==1?'y':'n');

printf("count= %c",count);

}

getch();

}

11 **Using simple for loop**

/\*Using for loop write a program to print 2,4,6,8,10,12,14,16,18,20 1st mthod \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

printf("\n");

int i;

for (i=2;i<=20;i+=2)

printf(" %d ,",i); /\*i=i+2 \*/

getch();

}

12 **using for loop incrementation is in the body of loop instead of for statement 2 nd method**

/\*Using for loop - incrementation in body of loop instead of for statement

write a program to print 2,4,6,8,10,12,14,16,18,20 2nd method \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

printf("\n");

int i;

for (i=2;i<=20;)

{

printf(" %d ,",i);

i=i+2;

}

getch();

}

13 **Using for loop initialization is in the declaration statement instead of for statement 3 rd method**

/\*Using for loop - initialisation is done in the declarationn statement

instead of for statement

write a program to print 2,4,6,8,10,12,14,16,18,20 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

printf("\n");

int i=2;

for (;i<=20;i=i+2)

printf(" %d ,",i);

getch();

}

14 **Using for loop - neither initialization nor incrementation is in for statement 4 th method**

**/\*Using for loop - neither initialisation nor increment is done in for**

**statement write a program to print 2,4,6,8,10,12,14,16,18,20 \*/**

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

printf("\n");

int i=2;

for (;i<=20;)

{

printf(" %d ,",i);

i+=2;

}

getch();

}

15 **using for loop initialization & incrementation is done through the same statement 5 the method**

/\*Using for loop - the comparison as well as incrementationn is done through the same statement. Here first the comparison is performed & then, the incretion takes place. Also two initialisation in one statement write a program to print 2,4,6,8,10,12,14,16,18,20 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

printf("\n");

int i=0,j;

for (j=2;i++<10;)

printf(" %d ,",i\*j);

getch();

}

16 **Using for loop nesting of for loop**

/\*Using loop - nesting of for loop Write a program for following output

2,4,6,4,10, --------,18,20

3,6,9,--------------,27,30

|

|

|

10,20,30,-----------,90,100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int i,j;

printf("\n");

for (i=2;i<=10;i++)

{

for (j=1;j<=10;j++)

printf("%d,",i\*j);

printf("\n");

}

getch();

}

17 **Using nesting of for loop**

/\*Using loop - nesting of for loop Write a program for

2,4,6,4,10, --------,18,20

3,6,9,--------------,27,30

|

|

|

10,20,30,-----------,90,100 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int i,j;

printf("\n");

for (i=2;i<=10;i++)

{

for (j=1;j<=10;j++)

printf("%d,",i\*j);

printf("\n");

}

getch();

}

18 **PROGRAM USING while & break statement - prime number**

/\* USING while loop & break statement

Program to determine whether a number is prime or not. A prime number is one which is divisible only by one or itself \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int num,i=2;

printf("Enter any number ");

scanf("%d",&num);

while(i<=num-1)

{

if(num%i==0)

{

printf("\nNot a prime number");

break;

}

i++;

}

if(i==num)

printf("prime number");

getch();

}

19 **Use of continue statement**

**/\* Use of continue statement**

program to print output

1 2

2 1 \*/

#include<stdio.h>

#include<conio.h>

void main()

{

clrscr();

int i,j;

for(i=1;i<=2;i++)

{

for(j=1;j<=2;j++)

{

if(i==j)

continue;

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

}

}

getch();

}