**Question 1- wap to print number 1 to 100.**

**package** Assignment3;

**public** **class** Question1

{

**public** **static** **void** main(String[] args)

{

**int** x;

**for**(x=1 ; x<=100 ; x++)

System.***out***.print(x+ " ");

}

}

**OUPOUT:** 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

**Question 2: wap to print even numbers between 1 to 20**

**package** Assignment3;

**public** **class** Question2

{

**public** **static** **void** main(String[] args)

{

**int** x;

**for**(x=1 ; x<=20 ; x++)

{

**if**(x % 2==0)

System.***out***.print(x +" ");

}

}

}

**OUTPUT:** 2 4 6 8 10 12 14 16 18 20

**Question 3: wap to print cube of 1 to 5 number**

**package** Assignment3;

**import** java.util.Scanner;

**public** **class** Question3

{

**public** **static** **void** main(String[] args)

{

Scanner c= **new** Scanner(System.***in***);

System.***out***.print("Enter number of terms= ");

**int** x= c.nextInt();

**for**(x=1 ; x<=5 ; x++)

{

System.***out***.println("Number = " +x +" "+ "and cube of the number = " +x\*x\*x);

}

}

}

**OUTPUT:**

Enter number of terms= 5

Number = 1 and cube of the number = 1

Number = 2 and cube of the number = 8

Number = 3 and cube of the number = 27

Number = 4 and cube of the number = 64

Number = 5 and cube of the number = 125

**Question 4: wap to check if a number is prime or not**

**package** Assignment3;

**import** java.util.Scanner;

**public** **class** Question4

{

**public** **static** **void** main(String[] args)

{

Scanner p= **new** Scanner(System.***in***);

System.***out***.print("Enter a number: ");

**int** x=p.nextInt();

**int** test=0;

**for**(**int** i=2;i<x/2;i++)

{

**if**(x % i ==0)

{

test=1;

**break**;

}

}

**if**(test==0)

System.***out***.println("Prime");

**else**

System.***out***.println("Not Prime");

}

}

**OUTPUT:**

Enter a number: 7 Enter a number: 8

Prime Not Prime

**Question 5:wap to print fibonacci series using for loop i.e adding last two results**

**package** Assignment3;

**public** **class** Question5

{

**public** **static** **void** main(String[] args)

{

**int** i=1, n=10, Firstterm=0, Secondterm=1;

System.***out***.println("Fibonacci Series til" +" " +n+" " + "terms:");

**while**(i<=n)

{

System.***out***.print(Firstterm + " ");

**int** nextterm= Firstterm + Secondterm;

Firstterm = Secondterm;

Secondterm = nextterm;

i++;

}

}

}

**OUTPUT:**

Fibonacci Series til 10 terms:

0 1 1 2 3 5 8 13 21 34

**Question 6: wap to print factorial of a number 5\*4\*3\*2\*1**

**package** Assignment3;

**import** java.util.Scanner;

**public** **class** Question6

{

**public** **static** **void** main(String[] args)

{

**int** x, i , y=1;

Scanner s= **new** Scanner(System.***in***);

System.***out***.print("Enter a number: ");

x= s.nextInt();

**for**(i=1; i<=x; i++)

{

y=y\*i;

}

System.***out***.println("Factorial= " +y);

}

}

**OUTPUT:**

Enter a number: 5

Factorial= 120

**Question 7: wap to ask a number from user and print table of that number**

**package** Assignment3;

**import** java.util.Scanner;

**public** **class** Question7

{

**public** **static** **void** main(String[] args)

{

**int** x, i;

Scanner s= **new** Scanner(System.***in***);

System.***out***.print("Enter a number: ");

x= s.nextInt();

**for**(i=1; i<=10; i++)

{

System.***out***.println(x + "\*" +i + "=" + x\*i);

}

}

}

**OUTPUT:**

Enter a number: 3

3\*1=3

3\*2=6

3\*3=9

3\*4=12

3\*5=15

3\*6=18

3\*7=21

3\*8=24

3\*9=27

3\*10=30

**Question 8: wap to print prime numbers between 2 to 20**

**package** Assignment3;

**import** java.util.Scanner;

**public** **class** Question8

{

**public** **static** **void** main(String[] args)

{

**int** n1, n2, i, j;

**int** flag=0;

Scanner s= **new** Scanner(System.***in***);

System.***out***.print("Enter the 1st number: ");

n1= s.nextInt();

System.***out***.print("Enter the 2nd number: ");

n2= s.nextInt();

System.***out***.print("Prime numbers between the numbers are: ");

**for**(i=n1; i<=n2; i++)

{

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

{

**if**(i%j==0)

{

flag=0;

**break**;

}

**else**

{

flag=1;

}

}

**if**(flag==1)

System.***out***.print(i +" ");

}

}

}

**OUTPUT:**

Enter the 1st number: 2

Enter the 2nd number: 20

Prime numbers between the numbers are: 3 5 7 11 13 17 19

**Question 9:print patterns like**

**\***

**\*\***

**\*\*\***

**\*\*\*\***

**\*\*\*\*\***

**package** Assignment3;

**public** **class** Question9

{

**public** **static** **void** main(String[] args)

{

**for**(**int** i=1;i<=4;i++)

{

**for**(**int** j=1;j<=i;j++)

{

System.***out***.print("\*");

}

System.***out***.println("");

}

}

}

**OUTPUT:**

\*

\*\*

\*\*\*

\*\*\*\*

**Question 10: print patterns like**

**1**

**1 2**

**1 2 3**

**1 2 3 4**

**1 2 3 4 5**

**package** Assignment3;

**public** **class** Question10

{

**public** **static** **void** main(String[] args)

{

**for**(**int** i=1;i<=5;i++)

{

**for**(**int** j=1;j<=i;j++)

{

System.***out***.print(j+ "");

}

System.***out***.println("");

}

}

}

**OUTPUT:**

1

12

123

1234

12345

**Question 11: print patterns like**

**A B C D**

**A B C**

**A B**

**A**

**package** Assignment3;

**public** **class** Question11

{

**public** **static** **void** main(String[] args)

{

**int** alpha= 65;

**for**(**int** i=0;i<=4;i++)

{

**for**(**int** j=0;j<4-i;j++)

{

System.***out***.print((**char**)(alpha+j));

}

System.***out***.println();

}

}

}

**OUTPUT:**

ABCD

ABC

AB

A

**Question 12: print patterns like**

**A B C D D C B A**

**A B C C B A**

**A B B A**

**A A**

**package** Assignment3;

**public** **class** Question12

{

**public** **static** **void** main(String[] args)

{

**int** i,j;

**char** r='A';

**int** space=0;

**for**(i=1;i<=4;i++)

{

r='A';

**for**(j=4;j>=i;j--)

{

System.***out***.print(r);

r++;

}

**for**(**int** l=0;l<space;l++)

System.***out***.println(" ");

**for**(j=4;j>=i;j--)

{

r--;

System.***out***.print(r);

}

space=space+2;

System.***out***.println();

}

}

}

**OUTPUT:**

A B C D D C B A

 A B C         C B A   
 A B                 B A

 A                         A