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**Department: Computer Sciences**

**Course Code: CSC206**

**Question 1**

#include<stdio.h>

int main()

{

 {

 int m, k;

 for (m = 100; m > 1; m--)

 {

 k = m\*m;

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

 } }

 return 0;

}

**Question 2**

#include <stdio.h>

int main()

{

 int m;

 for (m=0; m<=80; m++)

 {

 printf("%d bottles\n",m);

 if (m == 59)

 break;

 }

 printf("came out of loop");

 return 0;

}

**Question 3**

#include <stdio.h>

int main()

{

 int i, prn;

 printf("Please enter a number: \n");

 scanf("%d", &prn);

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

 {

 if(prn%i == 0)

 {

 printf("%d is a prime number.",prn);

 }

 else

 {

 printf("%d is not a prime number.",prn);

 }

 return 0;

}

}

**Question 4**

#include <stdio.h>

int main()

{

 int c, n, fact = 1;

 printf("Enter the number\n");

 scanf("%d", &n);

 for (c = 1; c <= n; c++)

 fact = fact \* c;

 printf("Factorial of %d = %d\n", n, fact);

 return 0;

}

**Question 5**

#include <stdio.h>

int main()

{

 int m=50;

 while (m<=1000)

 {

 printf("m is equal to :%d\n",m);

 m+=7;

 }

 return 0;

}

**Question 6**

#include <stdio.h>

int main()

{

 char c;

 int vowel;

 printf("Enter the alphabet of your choosing \n");

 scanf("%c", &c);

 vowel = (c == 'a' || c == 'A' || c == 'e' || c == 'E' || c == 'i' || c == 'I' || c == 'o' || c == 'o' || c == 'u' || c == 'U');

 if (vowel)

 printf("%c is a vowel");

 else

 printf("%c is a consonant");

 return 0;

}

**Question 7**

#include <stdio.h>

int main()

{

 int t, e;

 printf("Multiples of: ");

 scanf("%d", &t);

 for (e=1; e<=12; e++)

 printf("%d\*%d = %d\n", t, e, t\*e);

 return 0;

}

**Question 9**

#include<stdio.h>

int main()

{

 int i, crd;

 int pat = 1;

 for(i = 1; i <= 8; i++){

 printf("Enter a number to be multiplied[%d]: ",i);

 scanf("%d", &crd);

 if(crd == 0){

 continue;

 }

 else{

 pat \*= crd;

 }

 }

 printf("The final answer is %d", pat);

 return 0;

}

**Question 10**

#include<stdio.h>

int main()

{

 int yrs;

 float sv, fv;

 printf("In a year: ");

 scanf("%f", &sv);

 printf("Annual population growth rate: ");

 scanf("%f", &fv);

 printf("Number of years: ");

 scanf("%d", &yrs);

 int i = 1;

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

 {

 sv += (sv / 100) \* fv;

 printf("\nYear %d: %f\n", i, sv);

 }

return 0;

}