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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;

}